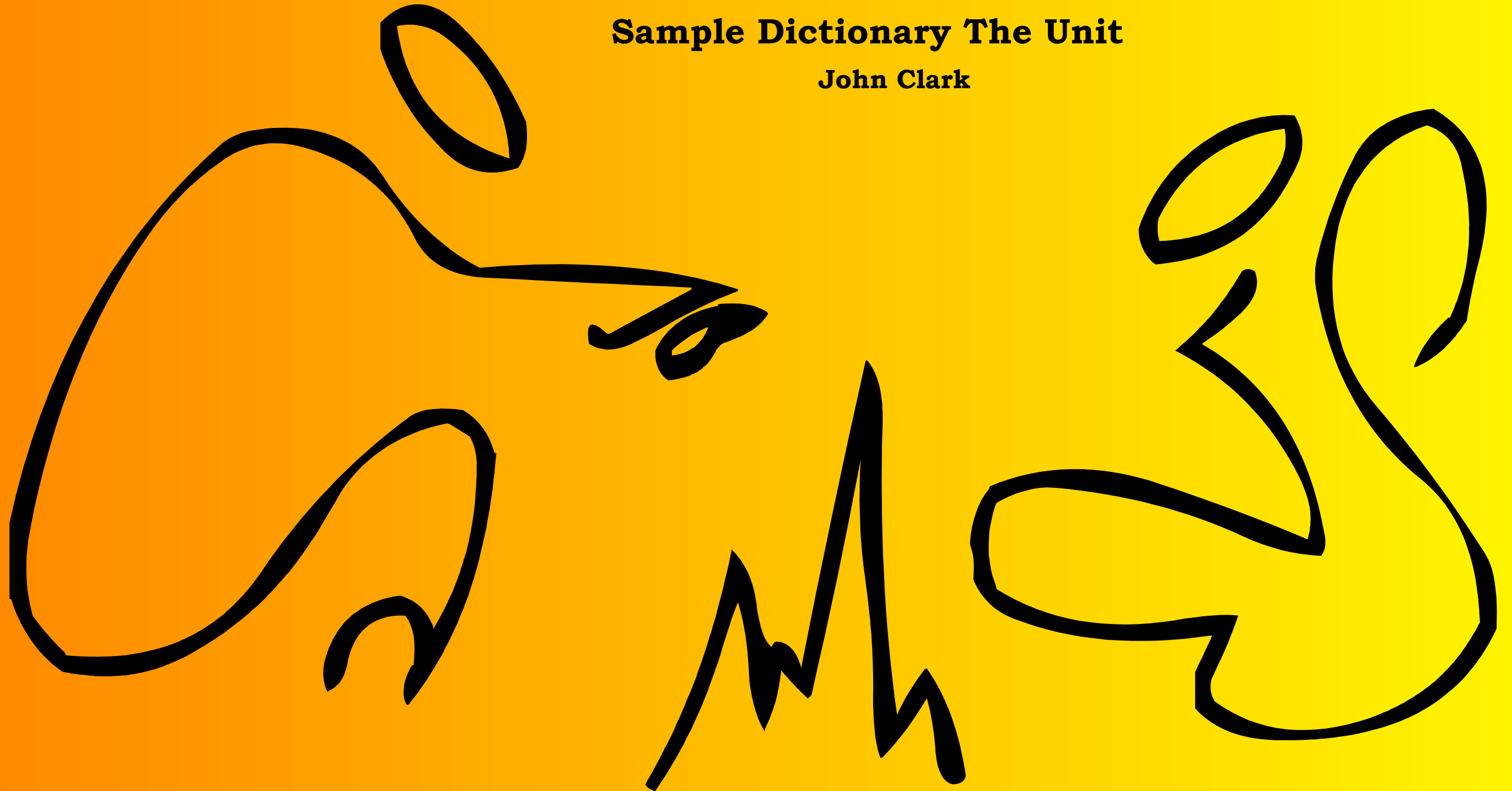


Basic Analog Grammar

Sample Dictionary The Unit

John Clark



John 312

BAM Unit Introduction

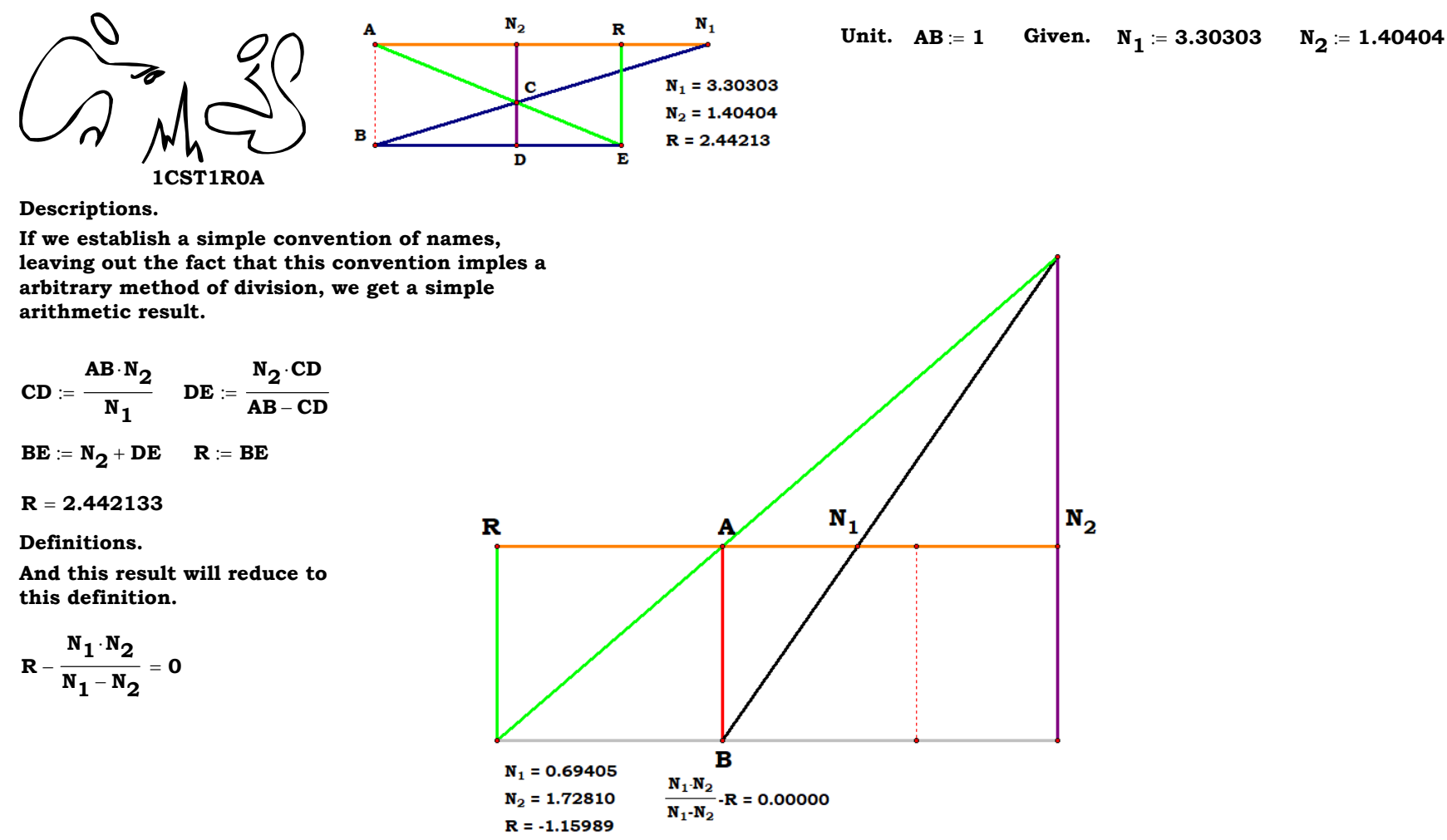
Tuesday, July 28, 2020

The definition of a thing gives us the rudimentary concepts of the absolute, or correlatives, constraining a relative, a universal thing, unit, etc. This unit, segment, thing, group, etc, is used for complete induction and deduction of particular grammar systems, each affording a particular method of binary recursion. Geometry provides us with the simplest symbolic method of denoting a unit by paralleling a single relative difference provided by the hand to a single relative difference. Geometry is used metaphorically, as a universal which can represent any relative difference at all and named in accordance with the three remaining logical systems of grammar. The geometric unit is called a segment, a thing, a unit, 1, a Conjugate Binary Pair, a noun and a verb, assertion and denial, etc. and is simply denoted, as I said, by a single motion of the hand, off, on, off:—

If you have studied Plato, he will tell you that between any pair of correlatives is exactly one relative, but it is something you see and experience everywhere. Until one gets down to a single dimension, one can parse that unit, however one will acquire a new thing that they are working with. Dimension simply means grammar in a binary naming convention. Part of the *Elements* of Euclid afford us the opportunity to learn about the segment as an intelligible, if you have the intelligence, and if we can do what those of that time never figured out, we could do as we are doing now, write a *Basic Analog Grammar Sample Dictionary*. Every grammar, at its foundation is an analog expression of our own behavior.

At this time, I am only going to demonstrate how many logical names we can get using exactly the same convention of names for a segment.

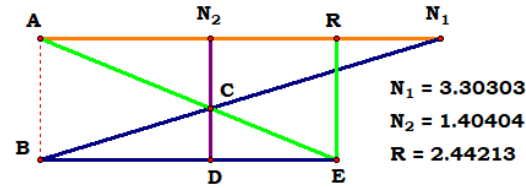
First let me example a simple arithmetic naming convention, meaning a one-to-one correspondence with whatever unit of measure one likes.



This method is one which one can also called traditional. Let us now work into the mix and treat the values as some proportion, or one can also say, some mathematical base system.



1CST1R0B



Unit. $AB := 1$ Given. $N_1 := 3.30303$ $N_2 := 1.40404$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

If, however, our starting names are a part of something else, well we can first do the process as plate A and then convert the results.

Descriptions.

$$CD := \frac{AB \cdot N_2}{N_1} \quad DE := \frac{N_2 \cdot CD}{AB - CD}$$

$$BE := N_2 + DE \quad R := BE$$

$$R = 2.442133$$

Definitions.

We start with our original arithmetic result,

$$R - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$

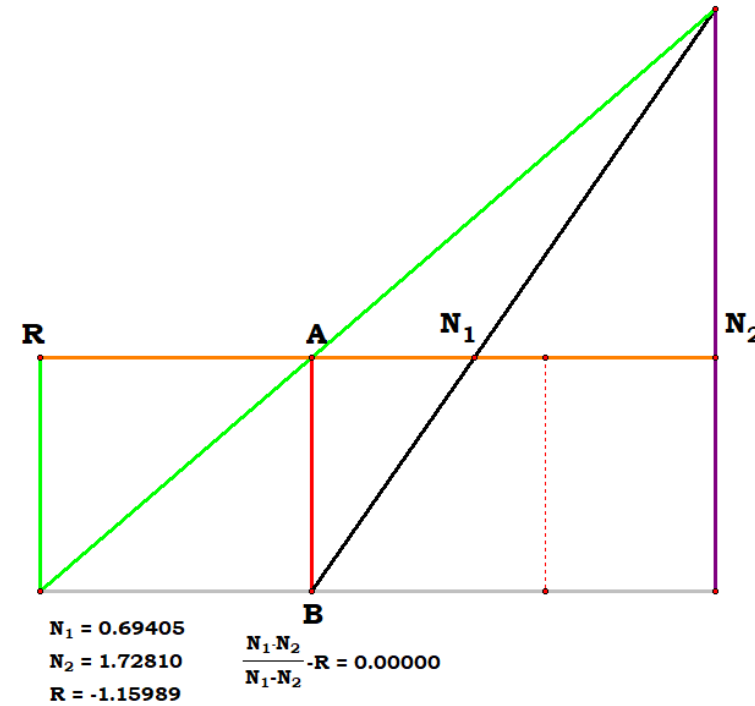
Transform the rest of our givens like such

$$N_1 - \frac{N_u}{A} = 0$$

$$N_2 - \frac{N_u}{B} = 0$$

Making our substitutions we get a completely different equation where any value whatsoever can be plugged into N_u and the arithmetic result will not change, ever. So, in our first plate, we got a particular result, where here, we get a result that is apparently universal for any base system used in math.

$$R - \frac{N_u}{B - A} = 0$$

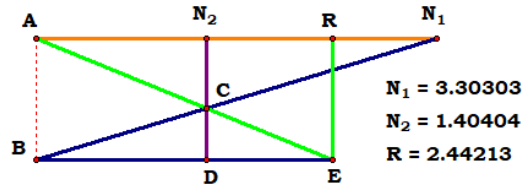


We end up with an equation which always gives exactly the same arithmetic result no matter which base system we use. And, if one has a small thought, they can see how math, itself, is independent of any particular material difference whatsoever, i.e., it is wholly metaphorical. So, if we learn how to do the geometry, it will teach us how to comprehend the math. Now, let us suppose that we have two distinct

things whose relative differences are not measured by same units, say one is plastic, the other aluminum, or even sound, each is then particular to itself. As this work contains up to 8 terms, I will do something to indicate which terms can take any value without changing the equation, and I will set these down for the entire work before hand as a standard. STUVWXYZ for units, nouns, and hjklmopq the number of those units, verbs.



1CST1ROC



Unit. $AB := 1$ Given. $N_1 := 3.30303$ $N_2 := 1.40404$
 $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$
 $N_1 = 3.30303$
 $N_2 = 1.40404$
 $R = 2.44213$

Descriptions.

Let us suppose that we treat each unit as a ratio to something peculiar to it. We start with the simple arithmetic naming convention, if we like. We have already done that work, why waste it?

$$CD := \frac{AB \cdot N_2}{N_1} \quad DE := \frac{N_2 \cdot CD}{AB - CD}$$

$$BE := N_2 + DE \quad R := BE$$

$$R = 2.442133$$

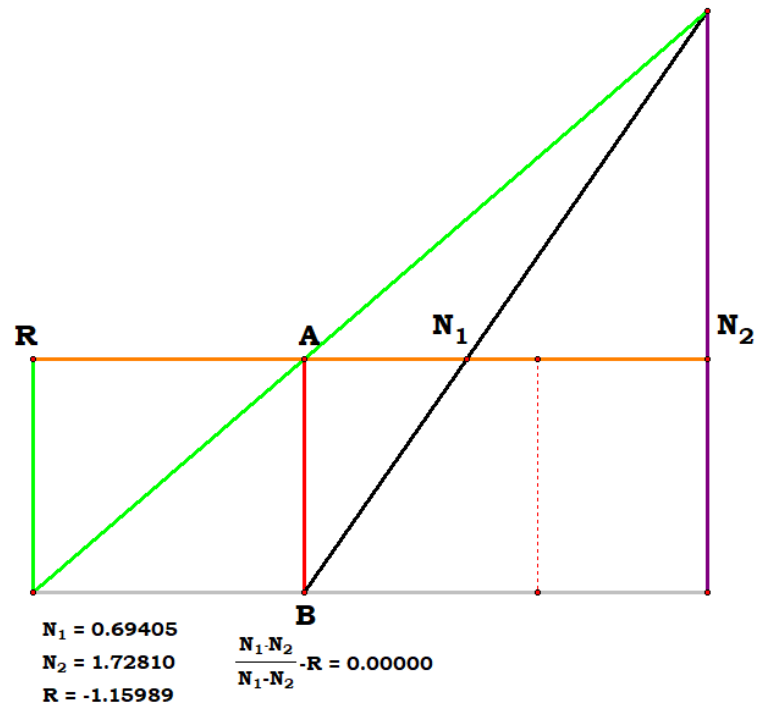
Definitions.

So again, we take our original result.

$$R - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$

Prepare our substitutions

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$



And often our result will look very similar to our simple equation, only this time, we have a ratio between four terms. And, as every grammar is binary, our arithmetic result will always remain the same, exept here, we can make W and X any value we wish, or take it from the things we are writing up, and the arithmetic results, once again, will not change. However, now we have an eqation which can work with any two things no matter if the material difference is not the same.

$$R - \frac{Y \cdot Z}{Y \cdot q - Z \cdot p} = 0$$

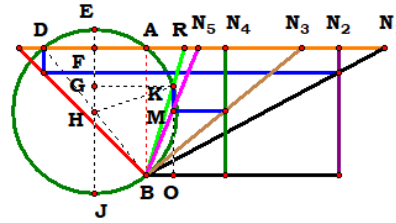
We end up then with one arithmetic name, but three distinct algebraic names. This is because arithmetic is closer to simple binary, while the geometric results give us more detailed comprehension on how the parts of the givens relate to the other parts, nouns to the verbs be they the same relative differences, or not.

We have used exactly the same unit, exactly the same operations on them, yet we have refined our ability to name the relationships between the parts of things in order to recall and use that information in any particular application.

If further, as we get into the other books in this series, we find we can also transform these three methods into logical operators we expand our simple binary into a complete decision making array. Thus dividing our work where one is centered on the verb and the other the noun. So, what is that? A possible seven distinct results? I cannot say for sure, I am still exploring this.

This dictionary is then not completed to each of the particular examples; perhaps that is why I call it a sampler. It simply shows the pattern of such a dictionary exemplifying the basics of our grammar matrix. This pattern, however, shows what we have to learn to do in pairing logic to analogic, our entire grammar matrix. It also shows how a single grammar, geometry, is used to pair every usage. None of this work can give anyone the intelligence to actually think and write in the grammar; what comes naturally to me, as history shows, others simply never become aware of it, however, it does show you what you can do with the intelligence you do have by using the factual binary recursion of Language. Historically, no one has done this work, and after many years, I am still doing it all by my lonesome.

Not all of the answers which Mathcad come up with are true, or literate. The literacy of the program is guided by the literacy of those who constructed the program. Examine the following example and try to see for yourself if the answer Mathcad produces is any wise possible.



$N_1 = 1.86676$
 $N_2 = 1.50839$
 $N_3 = 1.22254$
 $N_4 = 0.61966$
 $N_5 = 0.41087$
 $R = 0.29929$

Unit. $AB := 1$ Given. $A := 1.86676$ $B := 1.50839$
 $C := 1.22254$ $D := .61966$
 $E := .41087$

$$\frac{A^2 \cdot C^2 - \sqrt{A^4 \cdot C^4 - 4 \cdot A^3 \cdot C^2 \cdot D \cdot E \cdot (B \cdot C + A \cdot D \cdot E)}}{2 \cdot A \cdot C \cdot (B \cdot C + A \cdot D \cdot E)} = 0.299284$$

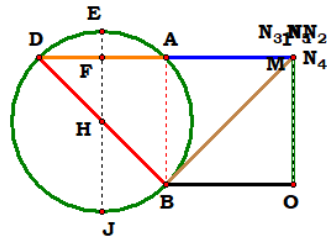
$$\text{Den} := \frac{2 \cdot A \cdot C \cdot (B \cdot C + A \cdot D \cdot E)}{\sqrt{[2 \cdot A \cdot C \cdot (B \cdot C + A \cdot D \cdot E)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} := \frac{A^2 \cdot C^2 - \sqrt{A^4 \cdot C^4 - 4 \cdot A^3 \cdot C^2 \cdot D \cdot E \cdot (B \cdot C + A \cdot D \cdot E)}}{\sqrt{[A^2 \cdot C^2 - \sqrt{A^4 \cdot C^4 - 4 \cdot A^3 \cdot C^2 \cdot D \cdot E \cdot (B \cdot C + A \cdot D \cdot E)]^2}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{[A^2 \cdot C^2 - \sqrt{A^4 \cdot C^4 - 4 \cdot A^3 \cdot C^2 \cdot D \cdot E \cdot (B \cdot C + A \cdot D \cdot E)}] \cdot \sqrt{A^2 \cdot C^2 \cdot (B \cdot C + A \cdot D \cdot E)^2}}{A \cdot C \cdot (B \cdot C + A \cdot D \cdot E) \cdot \sqrt{[A^2 \cdot C^2 - \sqrt{A^4 \cdot C^4 - 4 \cdot A^3 \cdot C^2 \cdot D \cdot E \cdot (B \cdot C + A \cdot D \cdot E)]^2}} = 0$$



$N_1 = 1.00000$
 $N_2 = 1.00000$
 $N_3 = 1.00000$
 $N_4 = 1.00000$
 $N_5 = 1.00000$

For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: $\frac{2 - 2i \cdot \sqrt{7}}{2 \cdot \sqrt{(-1 + \sqrt{7} \cdot i)^2}} = 1$ Really?

$2 - 2i \cdot \sqrt{7} = 2 - 5.291503i$

$2 \cdot \sqrt{(-1 + \sqrt{7} \cdot i)^2} = 2 - 5.291503i$

Also call to mind, given any so called theory, if one can find even one contradictory result, the theory is scrapped. In this work, one will find, I cannot say how many, but quite a few examples of errors in today's math so-called theories. Consider this, how can there be such a thing as a math theory to begin with, since like every possible grammar, all we can do is name the elements of a thing which is not a theory at all? What is it called when one maintains a claim in the fact of objective evidence?

What one is seeing is Mythology in Mathematics, which was objected to by some mathematicians even before the 20th century. Some people, in fact, far too many, would ask, why does it matter if mathematics sometimes makes a mistake? Ask yourself this, let us suppose that you finally grew a brain and actually used the simple principles of grammar

to formulate what some are calling Artificial Intelligence, something like learning what intelligence is before you go trying to reproduce your own stupidity, and you use the equation to answer a question such as, Is it safe to keep on going, while the poor robot was heading for a cliff, and the computer reasoned as above. Now suppose you were a passenger in that robotic vehicle, would you then trust in your judgment of, so why does it matter?

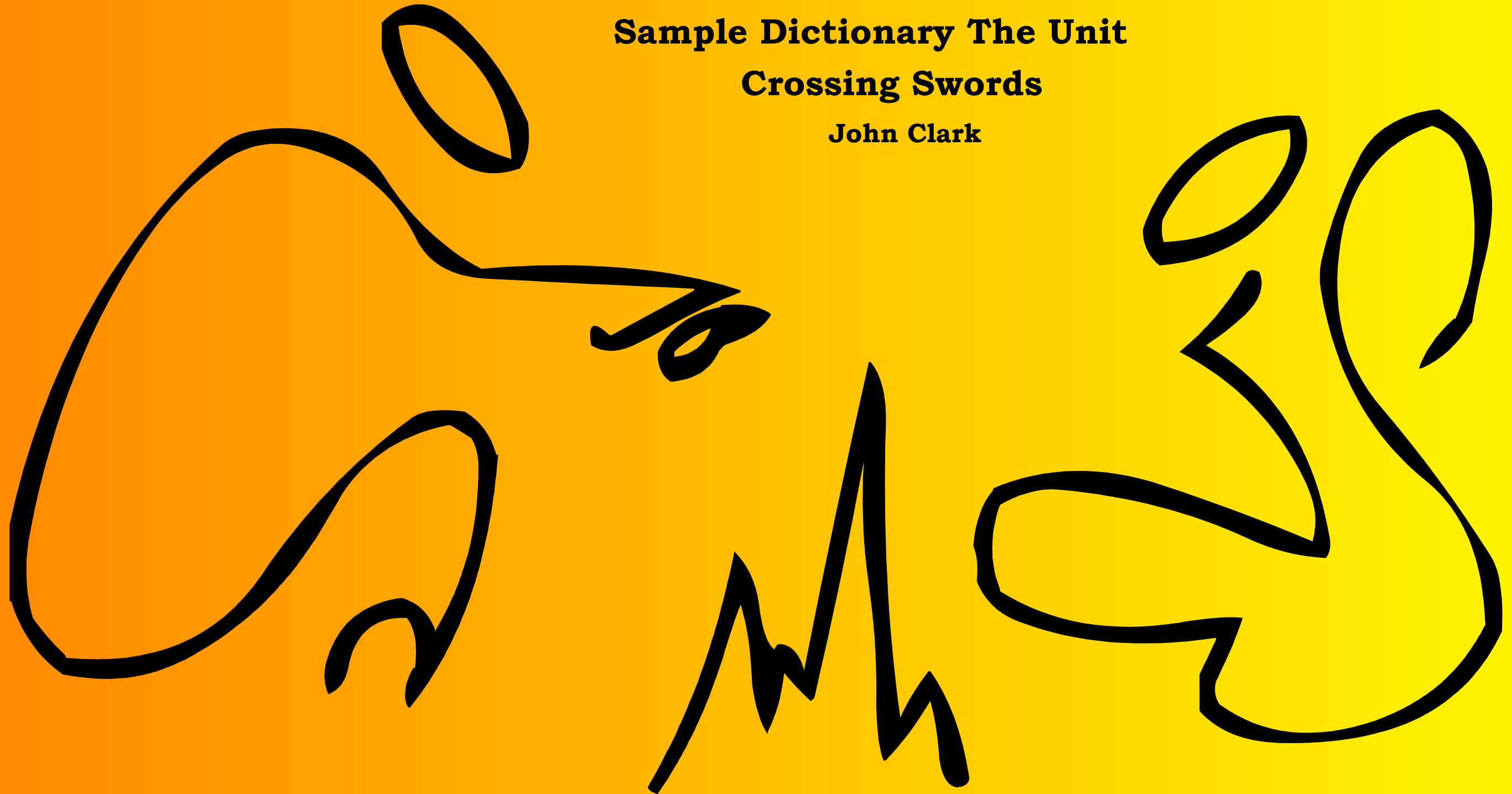
Only someone who is illiterate would do research on producing Artificial Intelligence when they, themselves, are provably illiterate and not intelligent at all.

Basic Analog Grammar

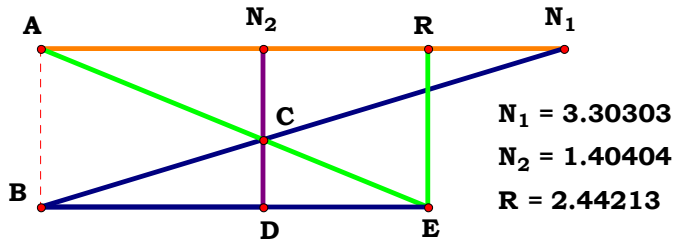
Sample Dictionary The Unit

Crossing Swords

John Clark



John 312



Unit. $AB := 1$ Given. $N_1 := 3.30303$ $N_2 := 1.40404$

$N_1 = 3.30303$
 $N_2 = 1.40404$
 $R = 2.44213$

Descriptions.
If we establish a simple convention of names, leaving out the fact that this convention implies a arbitrary method of division, we get a simple arithmetic result.

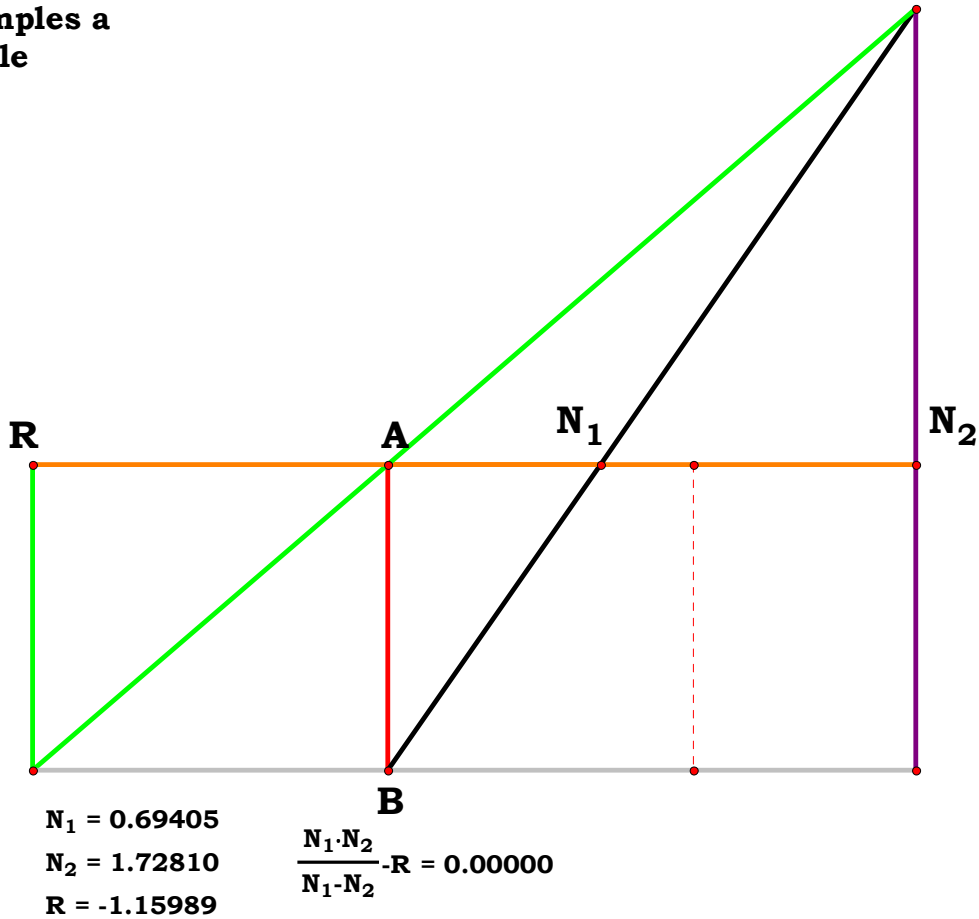
$$CD := \frac{AB \cdot N_2}{N_1} \quad DE := \frac{N_2 \cdot CD}{AB - CD}$$

$$BE := N_2 + DE \quad R := BE$$

$$R = 2.442133$$

Definitions.
And this result will reduce to this definition.

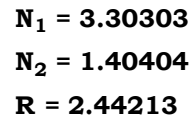
$$R - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$



$N_1 = 0.69405$
 $N_2 = 1.72810$
 $R = -1.15989$

$\frac{N_1 \cdot N_2}{N_1 - N_2} - R = 0.00000$

1CST1R0B


$$\mathbf{N}_{\mathbf{u}} := \mathbf{3}$$

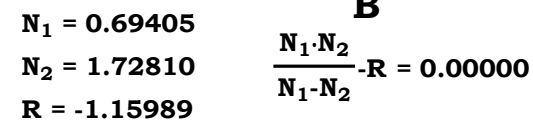
$$\mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2}$$

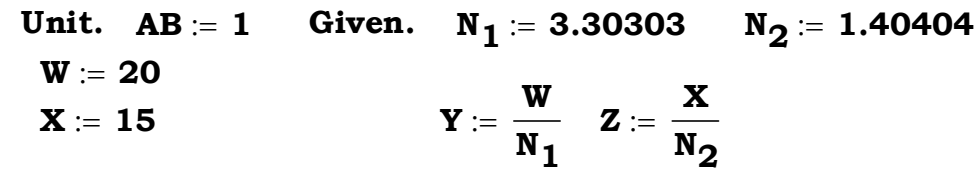
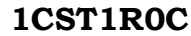
$$\mathbf{CD} := \frac{\mathbf{AB} \cdot \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{DE} := \frac{\mathbf{N}_2 \cdot \mathbf{CD}}{\mathbf{AB} - \mathbf{CD}}$$

R = 2.442133

$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 - \mathbf{N}_2} = \mathbf{0}$$
$$\mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u}{\mathbf{B} - \mathbf{A}} = \mathbf{0}$$




Let us suppose that we treat each unit as a ratio to something peculiar to it. We start with the simple arithmetic naming convention, if we like. We have already done that work, why waste it?

$$\mathbf{BE} := \mathbf{N}_2 + \mathbf{DE} \quad \mathbf{R} := \mathbf{BE}$$

R = 2.442133

So again, we take our original result.

$$R - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$

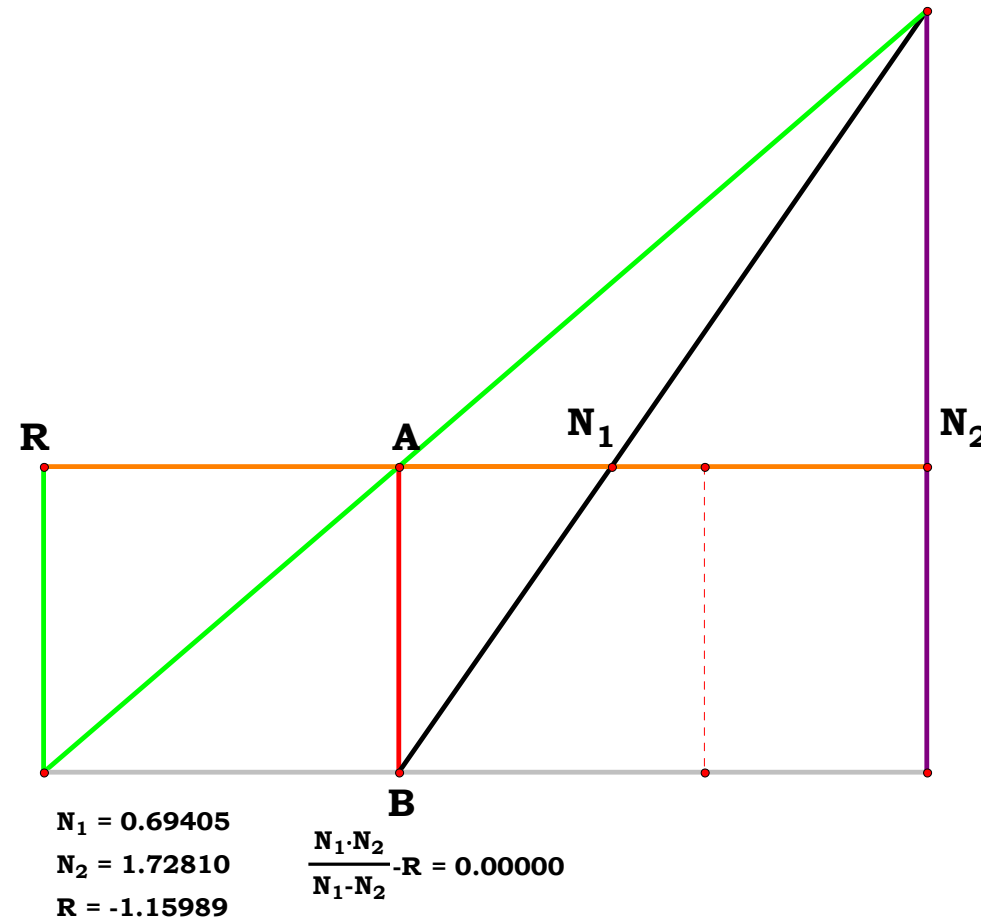
Prepare our substitutions

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{Y}} = \mathbf{0}$$

$$\mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{Z}} = \mathbf{0}$$

And often our result will look very similar to our simple equation, only this time, we have a ratio between four terms. And, as every grammar is binary, our arithmetic result will always remain the same, except here, we can make W and X any value we wish, or take it from the things we are writing up, and the arithmetic results, once again, will not change. However, now we have an equation which can work with any two things no matter if the material difference is not the same.

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{X}}{\mathbf{W} \cdot \mathbf{Z} - \mathbf{X} \cdot \mathbf{Y}} = 0$$





1CST1R1

Descriptions.

$$BE := N_2$$

$$BG := \frac{N_1 \cdot N_2}{N_1 - N_2} \quad FG := \frac{AB \cdot BG}{N_3}$$

$$R := \frac{N_4}{FG}$$

$$R = 3.582585$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

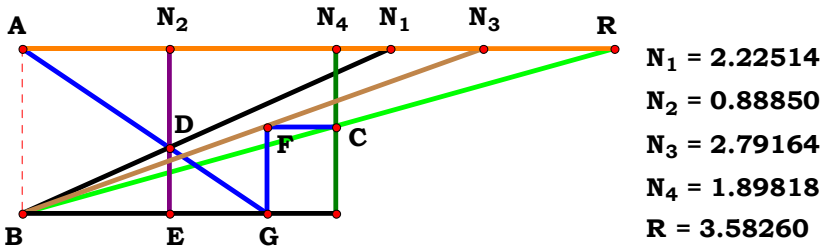
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (B - A)}{C \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

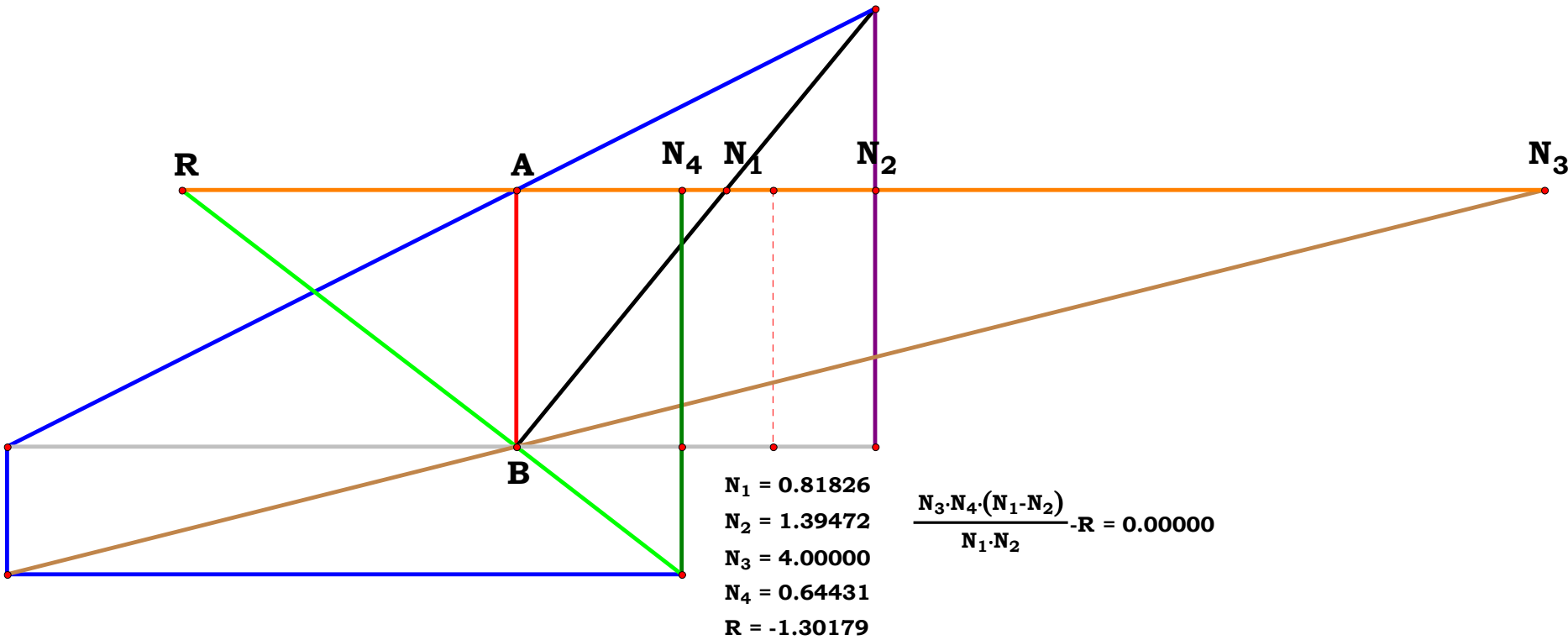
$$R - \frac{[Y \cdot Z \cdot (W \cdot n - X \cdot m)]}{W \cdot X \cdot o \cdot p} = 0$$



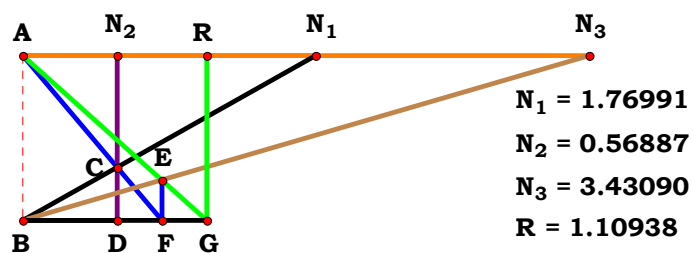
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.22514 \quad N_2 := .88850 \quad N_3 := 2.79164 \quad N_4 := 1.89818$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



1CST1R3

Unit. AB := 1 Given. $N_1 := 1.76991$ $N_2 := .56887$ $N_3 := 3.43090$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{AB} := \mathbf{1} \quad \mathbf{BF} := \frac{N_1 \cdot N_2}{N_1 - N_2}$$

$$\mathbf{EF} := \frac{\mathbf{BF}}{\mathbf{N}_3} \qquad \mathbf{BG} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{EF}}$$

R := BG R = 1.109383

Definitions.

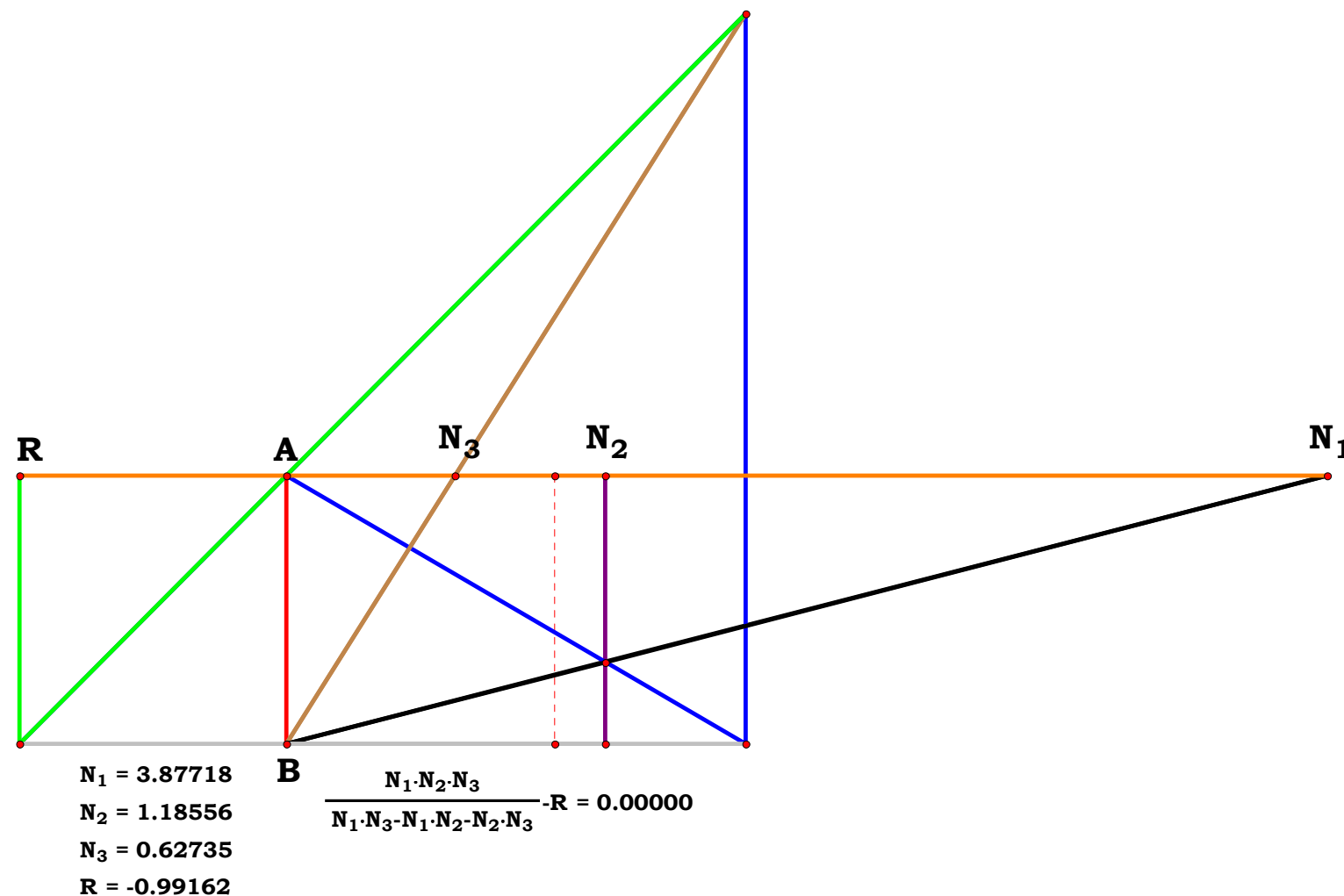
$$R - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u}{B - A - C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{Z}}{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o}} = 0$$





Descriptions.

$$CD := \frac{N_2}{N_1} \qquad BF := \frac{N_2}{AB - CD}$$

$$EF := \frac{BF}{N_3} \qquad GN_4 := AB - EF$$

$$R := \frac{N_4}{GN_4} \qquad R = 3.165638$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{N_1 \cdot N_2 - N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0$$

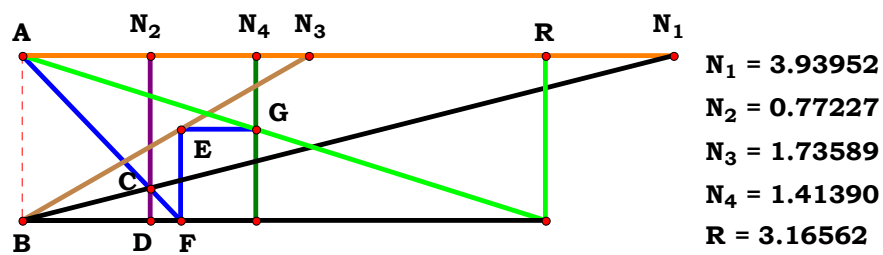
$$N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A - B)}{D \cdot (A - B + C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \qquad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \qquad N_4 - \frac{Z}{p} = 0$$

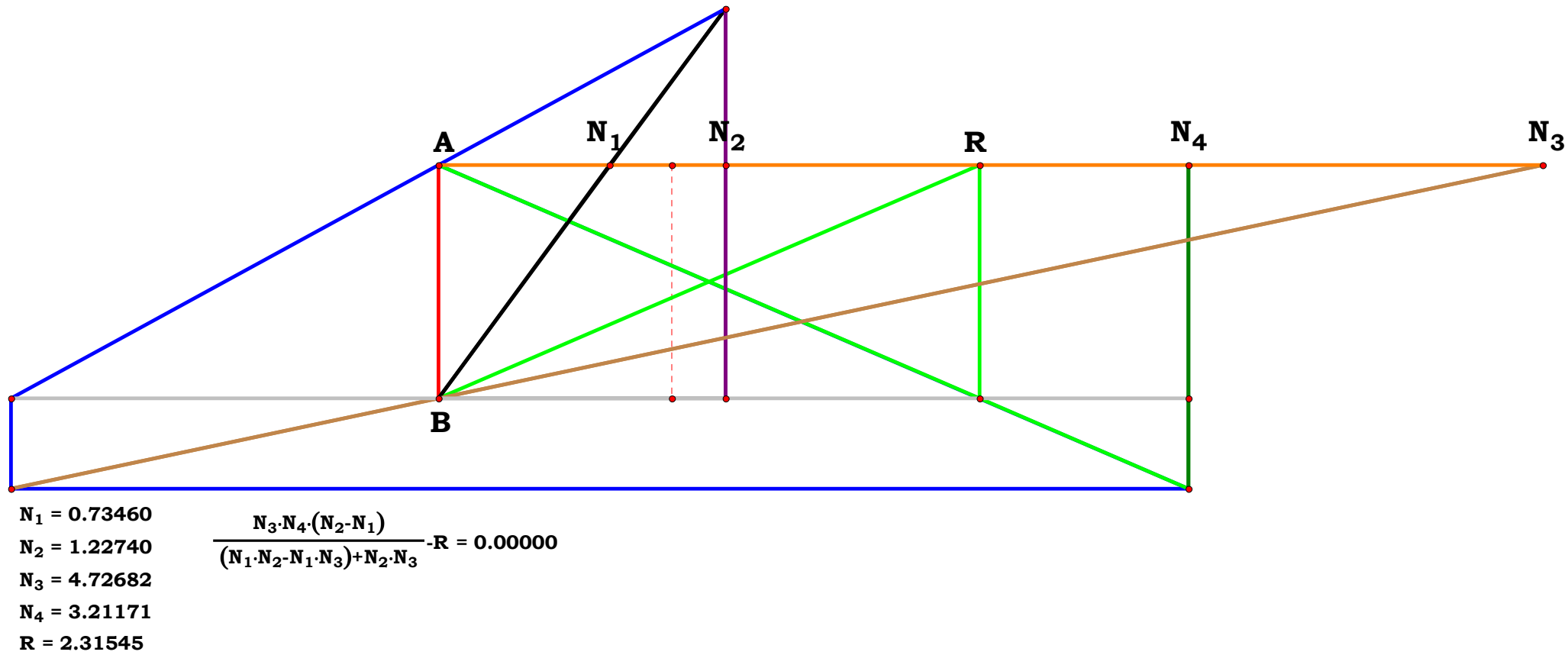
$$R - \frac{Y \cdot Z \cdot (W \cdot n - X \cdot m)}{p \cdot (W \cdot Y \cdot n - W \cdot X \cdot o - X \cdot Y \cdot m)} = 0$$



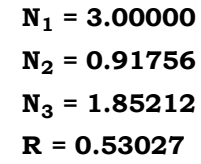
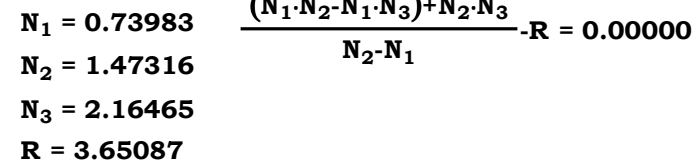
$$\text{Unit.} \quad AB := 1 \quad \text{Given.} \quad N_1 := 3.93952 \quad N_2 := .77227 \quad N_3 := 1.73589 \quad N_4 := 1.41390$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

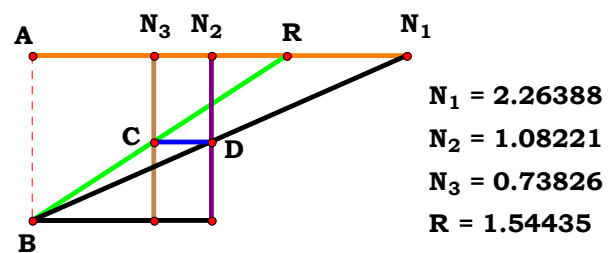
$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



1CST1R5


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$R := \frac{BF - CD}{DF} \quad R = 0.530267$$
$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o}}{\mathbf{q} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})} = 0$$


1CST1R7

Unit. AB := 1 Given. $N_1 := 2.26388$ $N_2 := 1.08221$ $N_3 := .73826$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{x} := 20 \quad \mathbf{y} := 19 \quad \mathbf{z} := 18 \quad \mathbf{o} := \frac{\mathbf{x}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{CN}_3 := \mathbf{AB} - \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{R} := \frac{\mathbf{N}_3}{\mathbf{AB} - \mathbf{CN}_3}$$

R = 1.544369

Definitions.

$$R - \frac{N_1 \cdot N_3}{N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

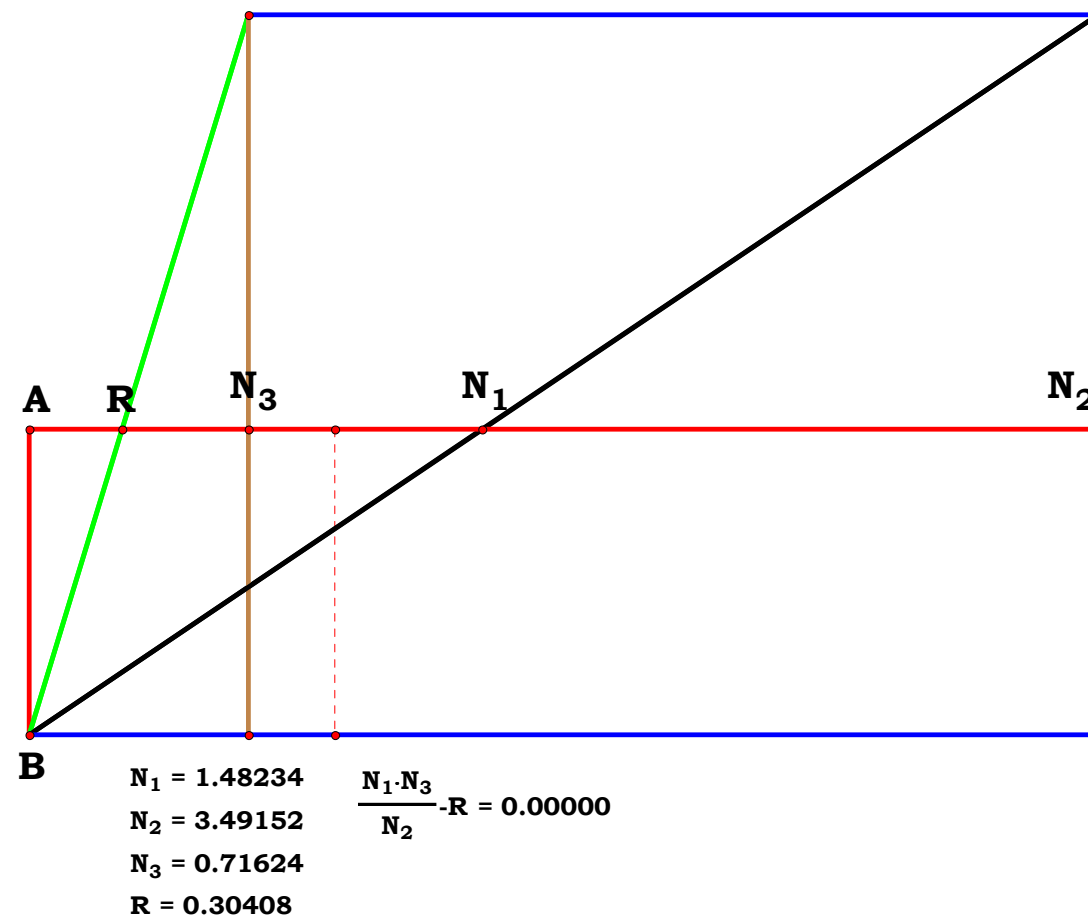
$$N_3 - \frac{N_u}{C} = 0$$

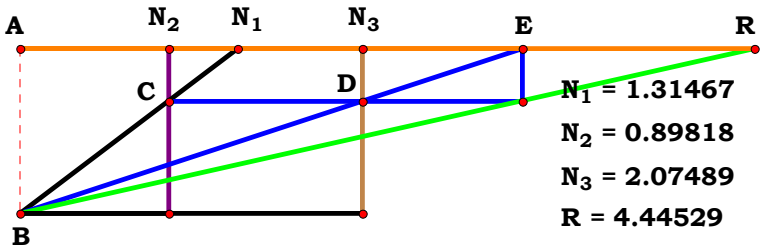
$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{N}_u}{\mathbf{A} \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0$$

$$\mathbf{N}_3 - \frac{\mathbf{z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}} = \mathbf{0}$$





Unit. $AB := 1$ Given. $N_1 := 1.31467$ $N_2 := .89818$ $N_3 := 2.07489$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$CN_2 := AB - \frac{N_2}{N_1} \quad AE := \frac{N_3}{AB - CN_2}$$

$$R := \frac{AE}{AB - CN_2} \quad R = 4.445308$$

Definitions.

$$R - \frac{N_1^2 \cdot N_3}{N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

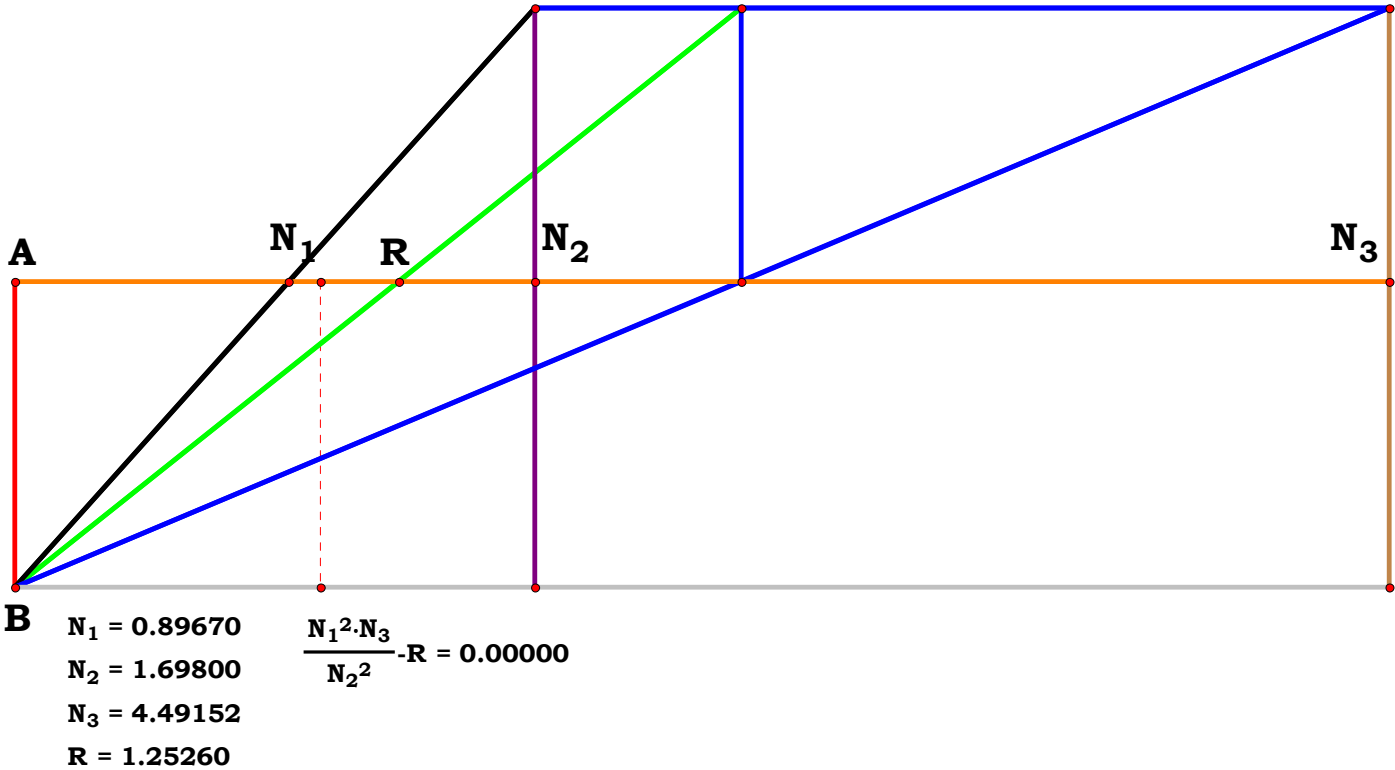
$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B^2 \cdot N_u}{A^2 \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0$$

$$N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Z \cdot p^2}{Y^2 \cdot o^2 \cdot q} = 0$$



Descriptions.

$$\mathbf{CN}_2 := \mathbf{AB} - \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{R} := \frac{\mathbf{N}_3}{\mathbf{CN}_2}$$

R = 2.284149

Definitions.

$$R - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

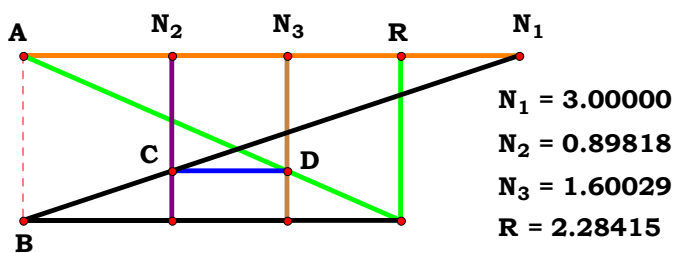
$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{N}_u}{\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0$$

$$\mathbf{N}_3 - \frac{\mathbf{z}}{\mathbf{q}} = \mathbf{0}$$

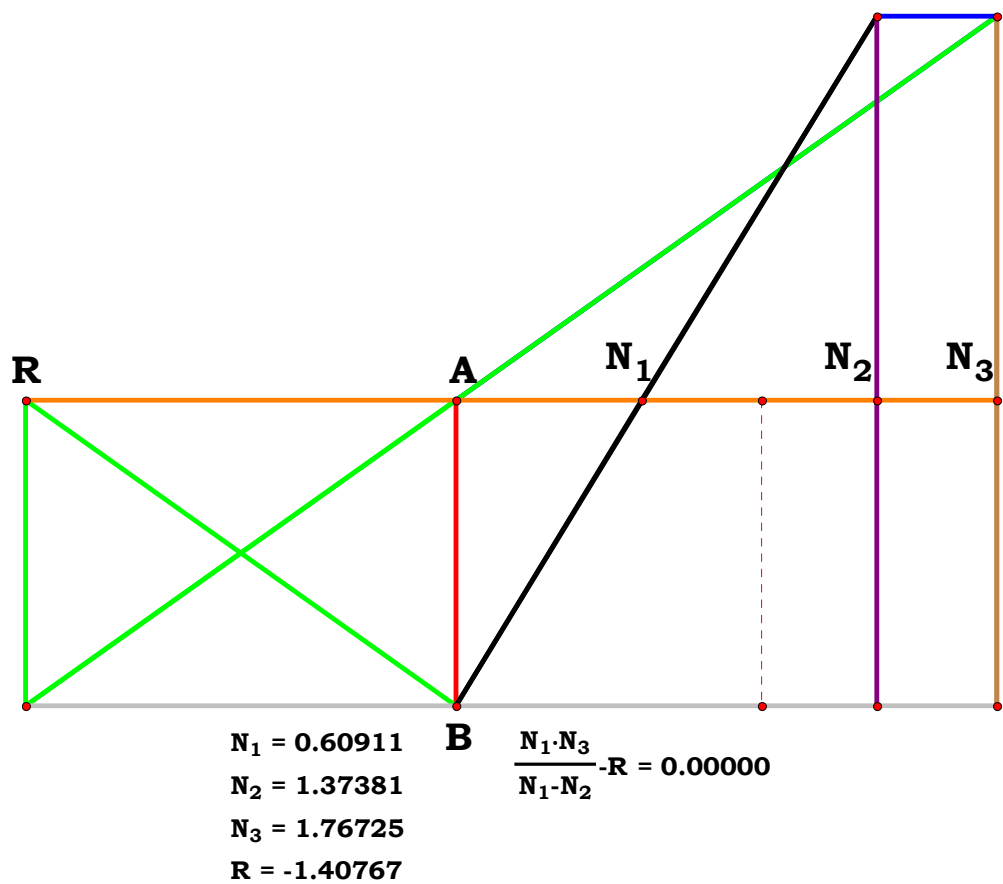
$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}} = 0$$

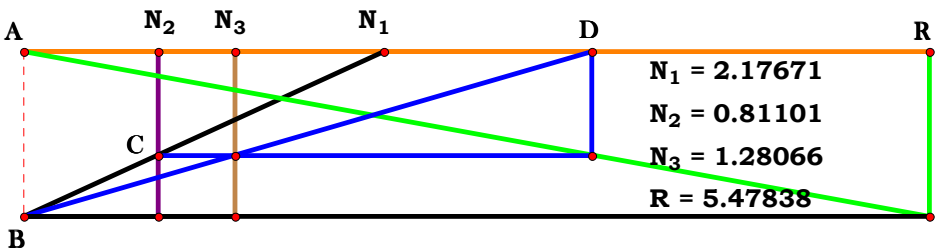


Unit. AB := 1 **Given.** $N_1 := 3$ $N_2 := .89818$ $N_3 := 1.60029$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$





Unit. $AB := 1$ Given. $N_1 := 2.17671$ $N_2 := .81101$ $N_3 := 1.28066$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$CN_2 := AB - \frac{N_2}{N_1} \quad AD := \frac{N_3}{AB - CN_2}$$

$$R := \frac{AD}{CN_2} \quad R = 5.478397$$

Definitions.

$$R - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

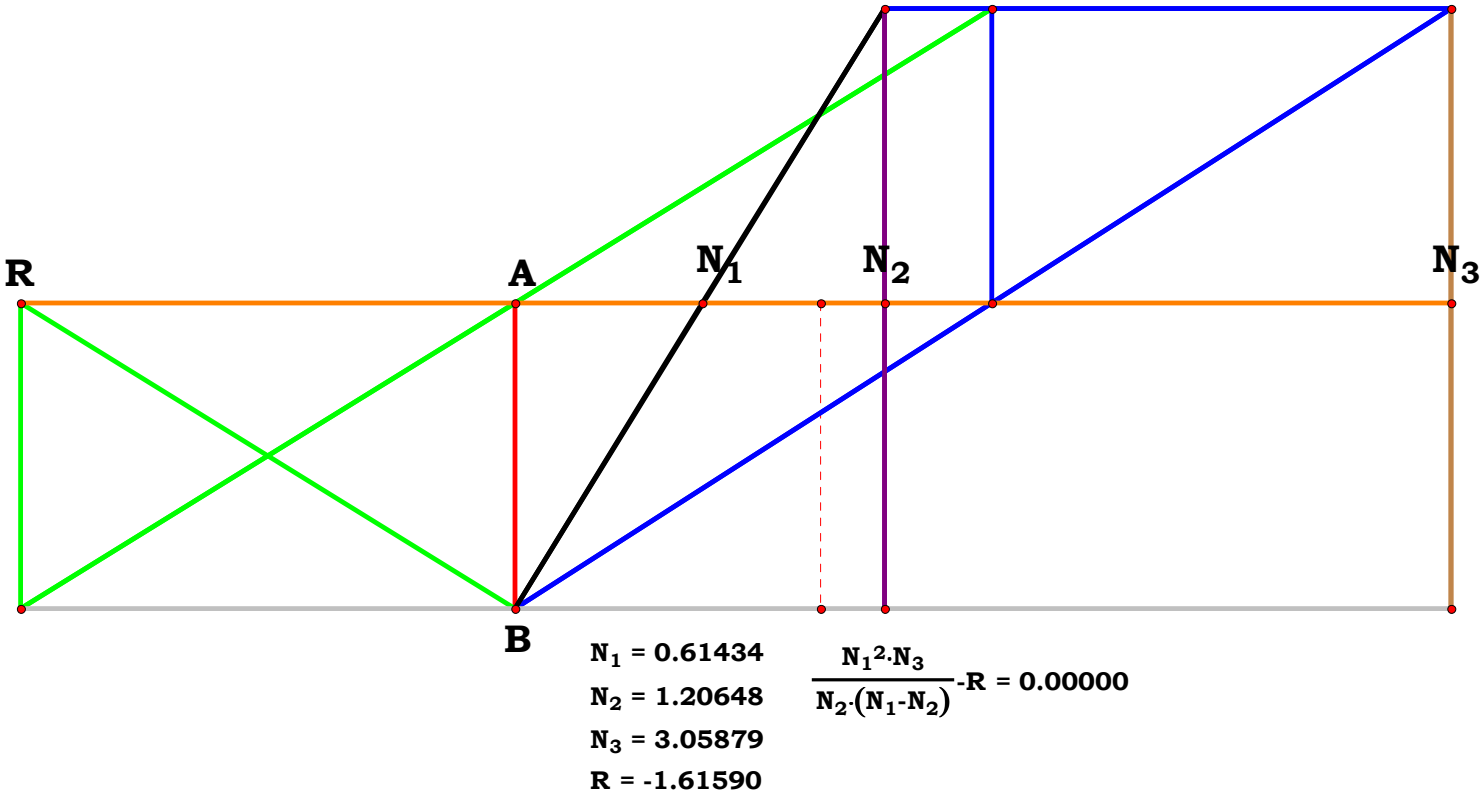
$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B^2 \cdot N_u}{C \cdot (A \cdot B - A^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0$$

$$N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Z \cdot p^2}{Y \cdot o \cdot q \cdot (X \cdot p - Y \cdot o)} = 0$$



$$\begin{aligned} N_1 &= 0.61434 \\ N_2 &= 1.20648 \\ N_3 &= 3.05879 \\ R &= -1.61590 \end{aligned}$$

$$\frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} \cdot R = 0.00000$$



1CST2R0

Descriptions.

$$BD := N_2 \quad R := \frac{BD \cdot N_1}{BD + N_1}$$

$$R = 1.296326$$

Definitions.

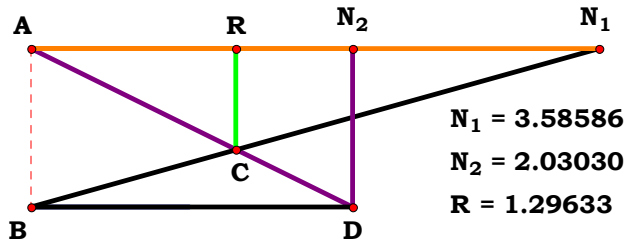
$$R - \frac{N_1 \cdot N_2}{N_1 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u}{A + B} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

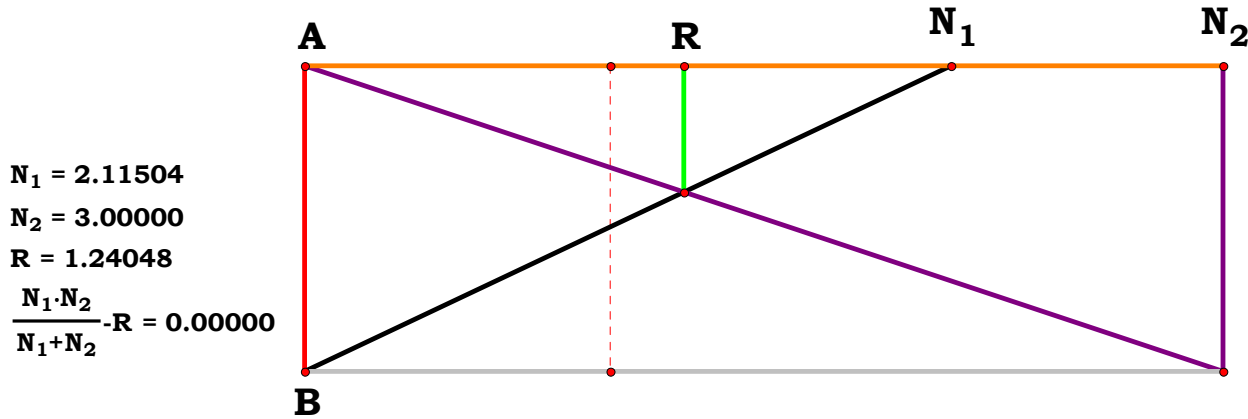
$$R - \frac{Y \cdot Z}{Y \cdot q + Z \cdot p} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.58586$ $N_2 := 2.03030$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

$$Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$





Descriptions.

$$AD := \frac{N_1 \cdot N_2}{N_1 + N_2} \qquad R := \frac{AD \cdot N_3}{AD + N_3}$$

$$R = 0.915233$$

Definitions.

$$R - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

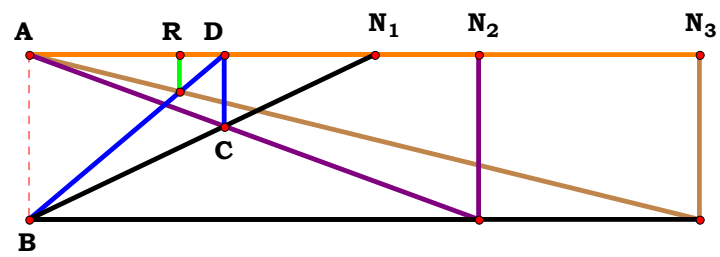
$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u}{A + B + C} = 0$$

$$N_1 - \frac{X}{o} = 0 \qquad N_2 - \frac{Y}{p} = 0 \qquad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Y \cdot Z}{X \cdot Y \cdot q + X \cdot Z \cdot p + Y \cdot Z \cdot o} = 0$$



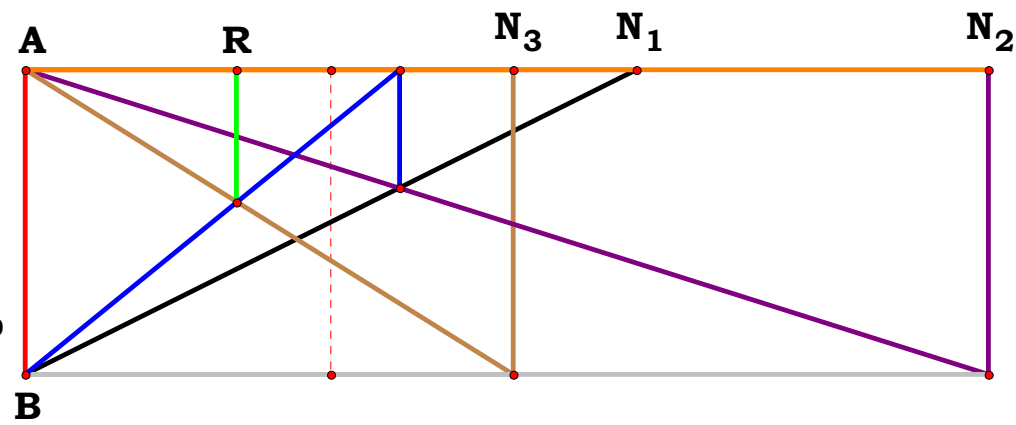
$$\begin{aligned} N_1 &= 2.08954 \\ N_2 &= 2.71911 \\ N_3 &= 4.06048 \\ R &= 0.91523 \end{aligned}$$

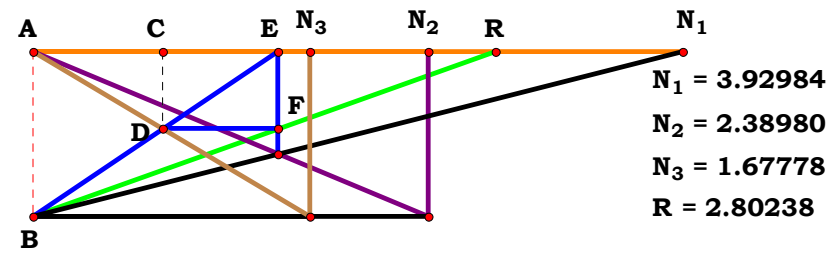
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.08954 \quad N_2 := 2.71911 \quad N_3 := 4.06048$$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

$$X := 20 \qquad Y := 19 \qquad Z := 18 \qquad o := \frac{X}{N_1} \qquad p := \frac{Y}{N_2} \qquad q := \frac{Z}{N_3}$$

$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.14641 \\ N_3 &= 1.59470 \\ R &= 0.69209 \\ \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} \cdot R &= 0.00000 \end{aligned}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{AE} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \qquad \mathbf{AC} := \frac{\mathbf{AE} \cdot \mathbf{N}_3}{\mathbf{AE} + \mathbf{N}_3}$$
$$\mathbf{CD} := \frac{\mathbf{AC}}{\mathbf{N}_3} \qquad \mathbf{R} := \frac{\mathbf{AE}}{\mathbf{AB} - \mathbf{CD}}$$

Definitions.

$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_2 \cdot (\mathbf{N}_1 \cdot \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3 + \mathbf{N}_2 \cdot \mathbf{N}_3)}{\mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2)^2} = \mathbf{0}$$

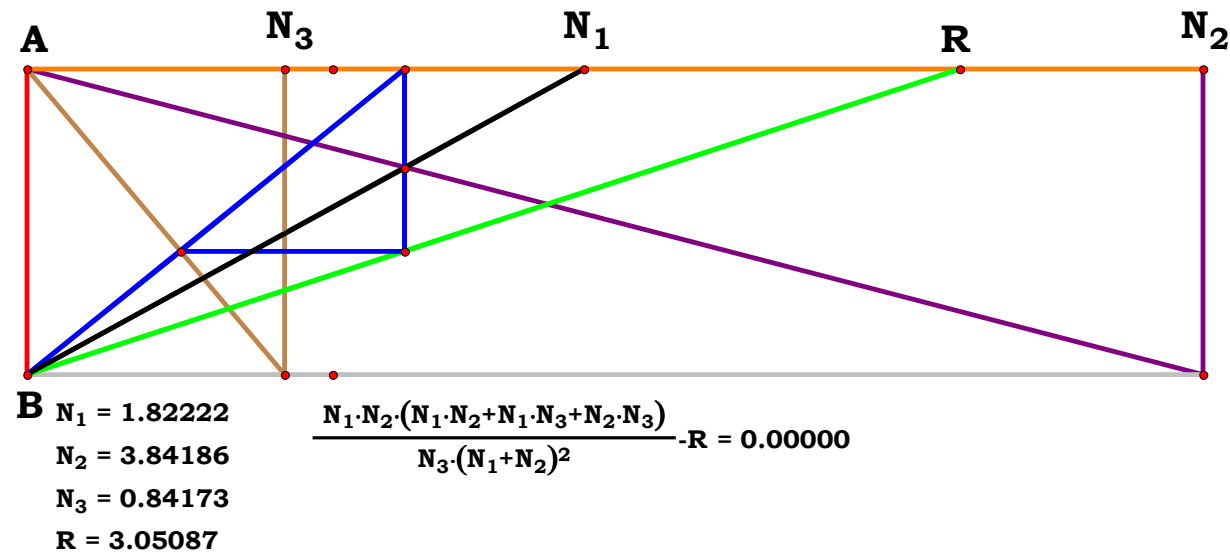
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

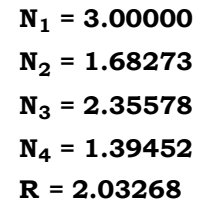
$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}{(\mathbf{A} + \mathbf{B})^2} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Y} \cdot (\mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{q} + \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o})}{\mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o})^2} = 0$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AD} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \qquad \mathbf{AC} := \frac{\mathbf{AD} \cdot \mathbf{N}_3}{\mathbf{AD} + \mathbf{N}_3}$$

$$\mathbf{CD} := \frac{\mathbf{AC}}{\mathbf{N}_3} \quad \mathbf{R} := \frac{\mathbf{N}_4}{\mathbf{AB} - \mathbf{CD}}$$

$$R - \frac{N_1 \cdot N_4 \cdot (N_2 + N_3) + N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1 + N_2)} = 0$$

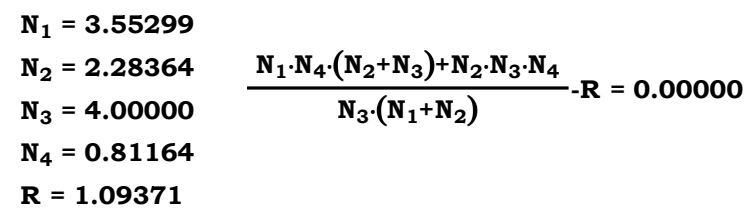
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}{\mathbf{D} \cdot (\mathbf{A} + \mathbf{B})} = \mathbf{0}$$

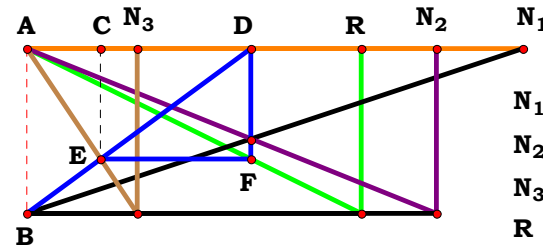
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{Z \cdot (W \cdot X \cdot o + W \cdot Y \cdot n + X \cdot Y \cdot m)}{Y \cdot p \cdot (W \cdot n + X \cdot m)} = 0$$





1CST2R4



$N_1 = 3.00000$
 $N_2 = 2.47697$
 $N_3 = 0.67045$
 $R = 2.02721$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.47697$ $N_3 := .67045$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$AD := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad AC := \frac{AD \cdot N_3}{AD + N_3}$$

$$CE := \frac{AC}{N_3} \quad R := \frac{AD}{CE}$$

$R = 2.027206$

Definitions.

$$R - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0$$

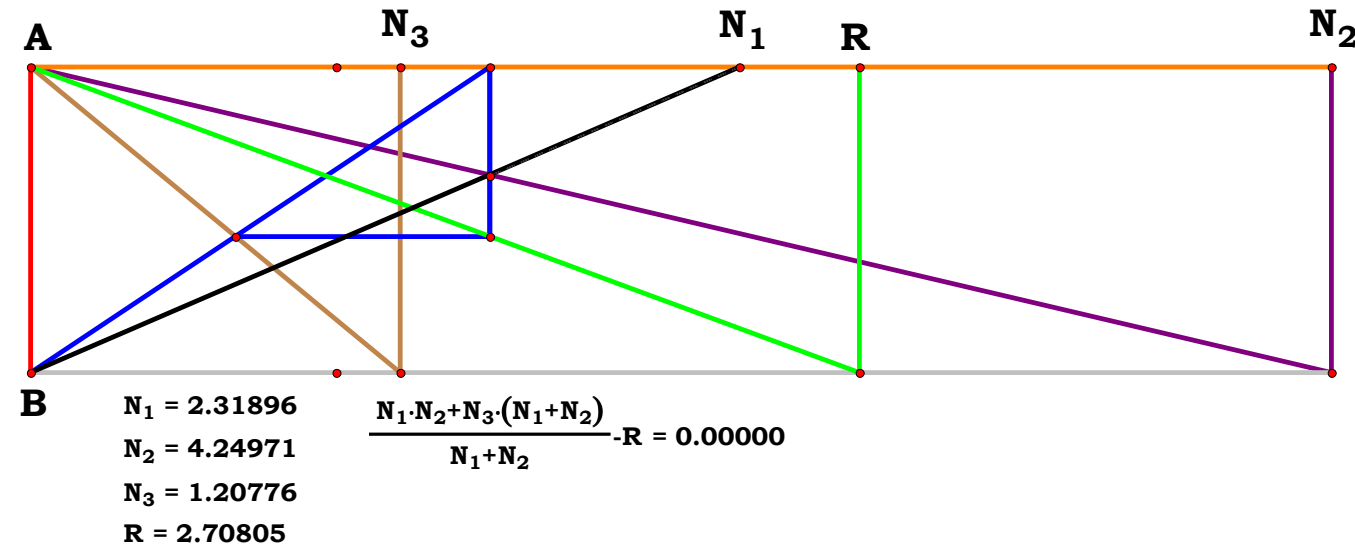
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

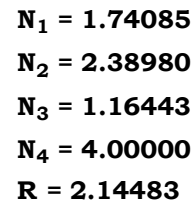
$$R - \frac{N_u \cdot (A + B + C)}{C \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Y \cdot q + X \cdot Z \cdot p + Y \cdot Z \cdot o}{q \cdot (X \cdot p + Y \cdot o)} = 0$$



$N_1 = 2.31896$
 $N_2 = 4.24971$
 $N_3 = 1.20776$
 $R = 2.70805$
 $\frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} - R = 0.00000$


$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2}$$
$$\mathbf{AD} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AC} := \frac{\mathbf{AD} \cdot \mathbf{N}_3}{\mathbf{AD} + \mathbf{N}_3}$$

$$\mathbf{CE} := \frac{\mathbf{AC}}{\mathbf{N}_3} \quad \mathbf{R} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{CE})$$

R = 2.144829

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

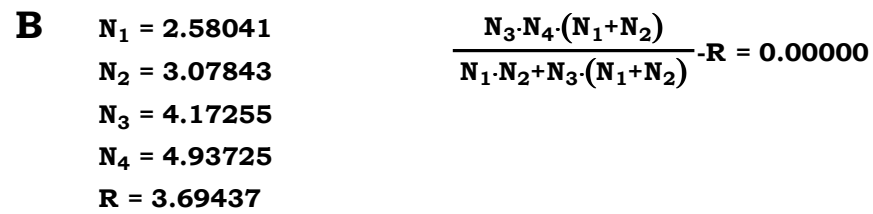
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{D} \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})} = \mathbf{0}$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m})}{\mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{X} \cdot \mathbf{o} + \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m})} = 0$$




$$\mathbf{AF} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AC} := \frac{\mathbf{AF} \cdot \mathbf{N}_3}{\mathbf{AF} + \mathbf{N}_3}$$

$$\mathbf{CD} := \frac{\mathbf{AC}}{\mathbf{N}_3} \quad \mathbf{AE} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{CD})$$

$$\mathbf{R} := \frac{\mathbf{AE}}{\mathbf{CD}} \quad \mathbf{R} = 1.740487$$

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

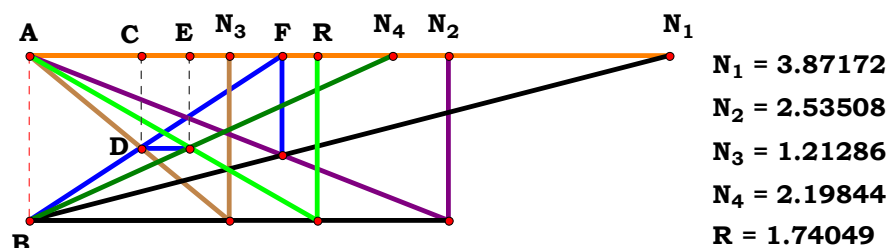
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \mathbf{D}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

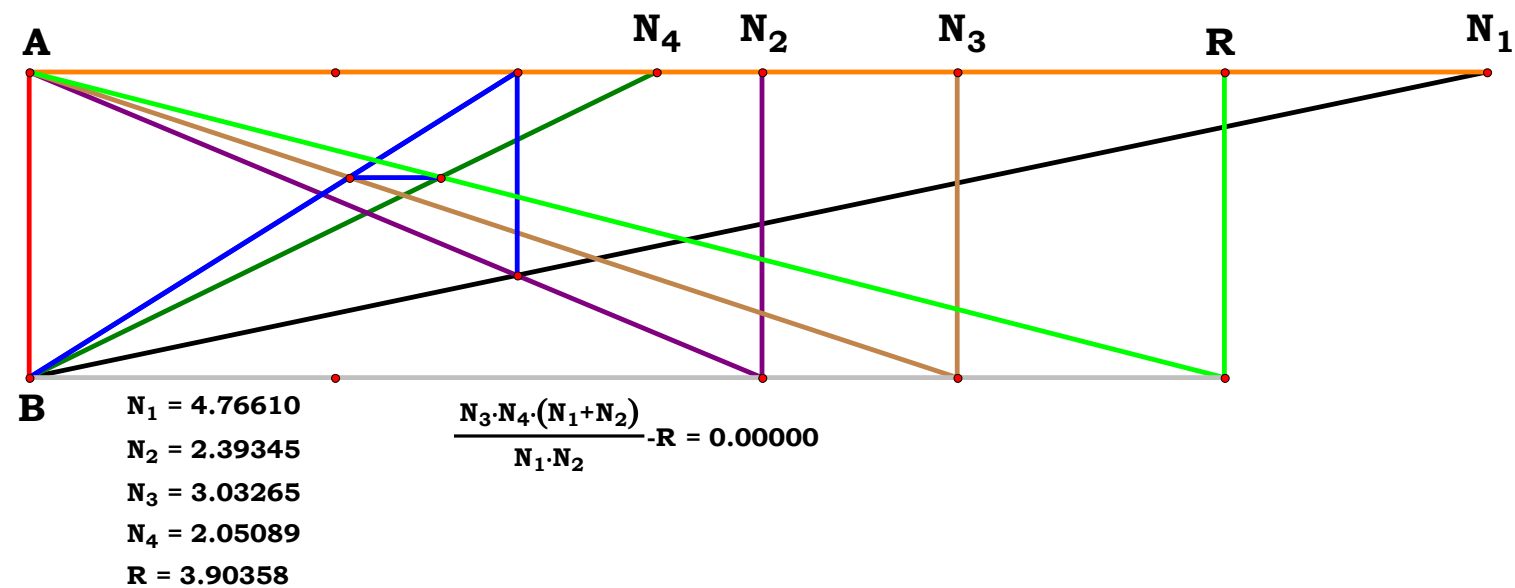
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m})}{\mathbf{W} \cdot \mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p}} = 0$$



Unit. AB := 1 Given. $N_1 := 3.87172$ $N_2 := 2.53508$ $N_3 := 1.21286$ $N_4 := 2.19844$

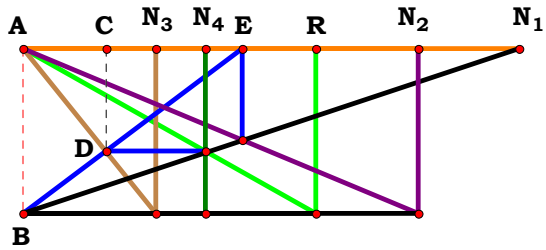
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$





1CST2R7



$N_1 = 3.00000$
 $N_2 = 2.38980$
 $N_3 = 0.80606$
 $N_4 = 1.10395$
 $R = 1.77292$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.3898$ $N_3 := .80606$ $N_4 := 1.10395$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AE := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad AC := \frac{AE \cdot N_3}{AE + N_3}$$

$$CD := \frac{AC}{N_3} \quad R := \frac{N_4}{CD}$$

$R = 1.77292$

Definitions.

$$R - \frac{N_4 \cdot [N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)]}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

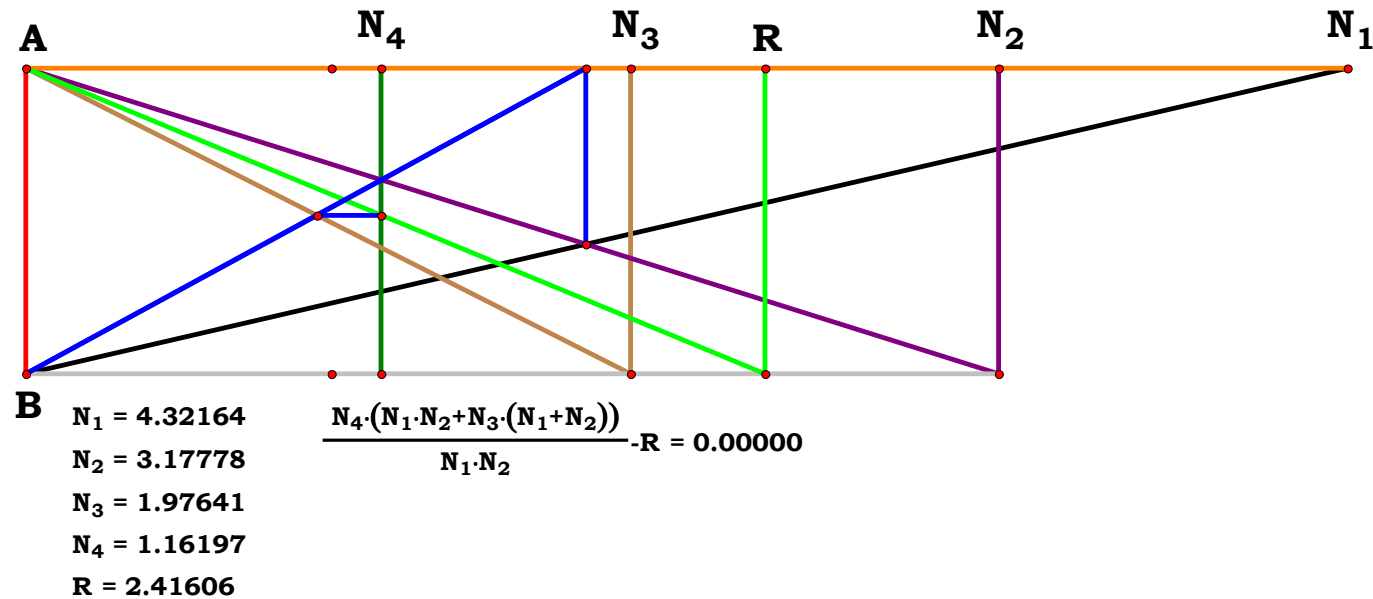
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A + B + C)}{C \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (W \cdot X \cdot o + W \cdot Y \cdot n + X \cdot Y \cdot m)}{W \cdot X \cdot o \cdot p} = 0$$



$N_1 = 4.32164$
 $N_2 = 3.17778$
 $N_3 = 1.97641$
 $N_4 = 1.16197$
 $R = 2.41606$
 $\frac{N_4 \cdot (N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2))}{N_1 \cdot N_2} - R = 0.00000$

1CST3R0

$$\mathbf{DE} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{CR} := \mathbf{AB} - \mathbf{DE}$$

$$\mathbf{RN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CR}}{\mathbf{AB}} \quad \mathbf{R} := \mathbf{N}_3 - \mathbf{RN}_3$$

R = 1.252921

$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot \mathbf{N}_3}{\mathbf{N}_1} = 0$$

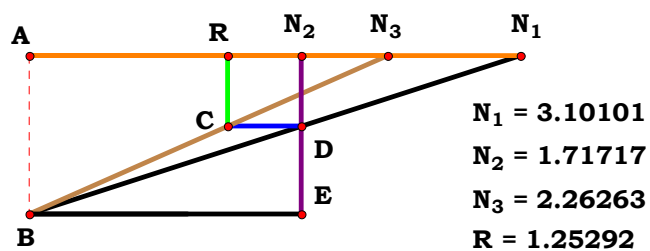
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{N}_u}{\mathbf{B} \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

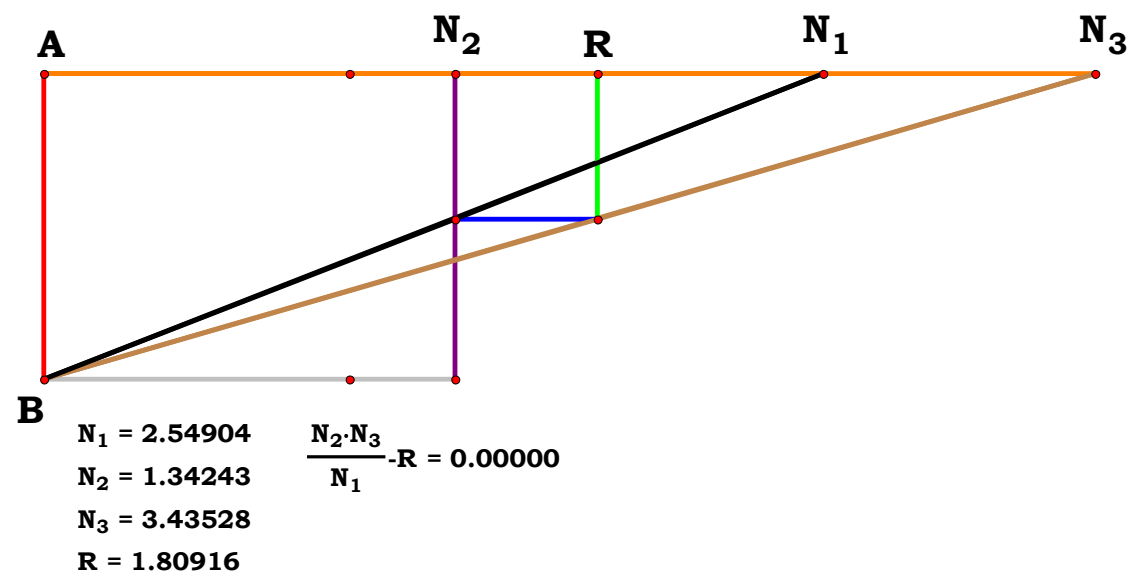
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o}}{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}} = \mathbf{0}$$



Unit. AB := 1 Given. $N_1 := 3.10101$ $N_2 := 2.26263$ $N_3 := 1.71717$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$



1CST3R1

$$\mathbf{AD} := \mathbf{N}_2 \cdot \frac{\mathbf{N}_3}{\mathbf{N}_1} \quad \mathbf{CR} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1}$$

$$\mathbf{DR} := \frac{\mathbf{AD} \cdot \mathbf{CR}}{\mathbf{AB}} \quad \mathbf{R} := \mathbf{AD} - \mathbf{DR}$$

Definitions.

$$R - \frac{N_2^2 \cdot N_3}{N_1^2} = 0$$

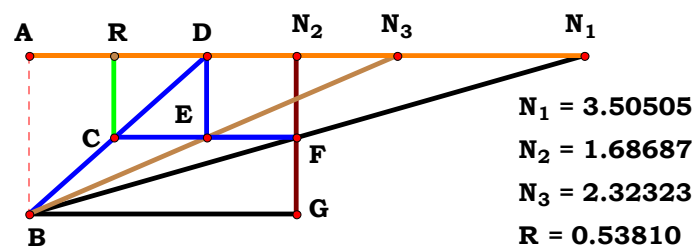
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A^2 \cdot N_u}{B^2 \cdot C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

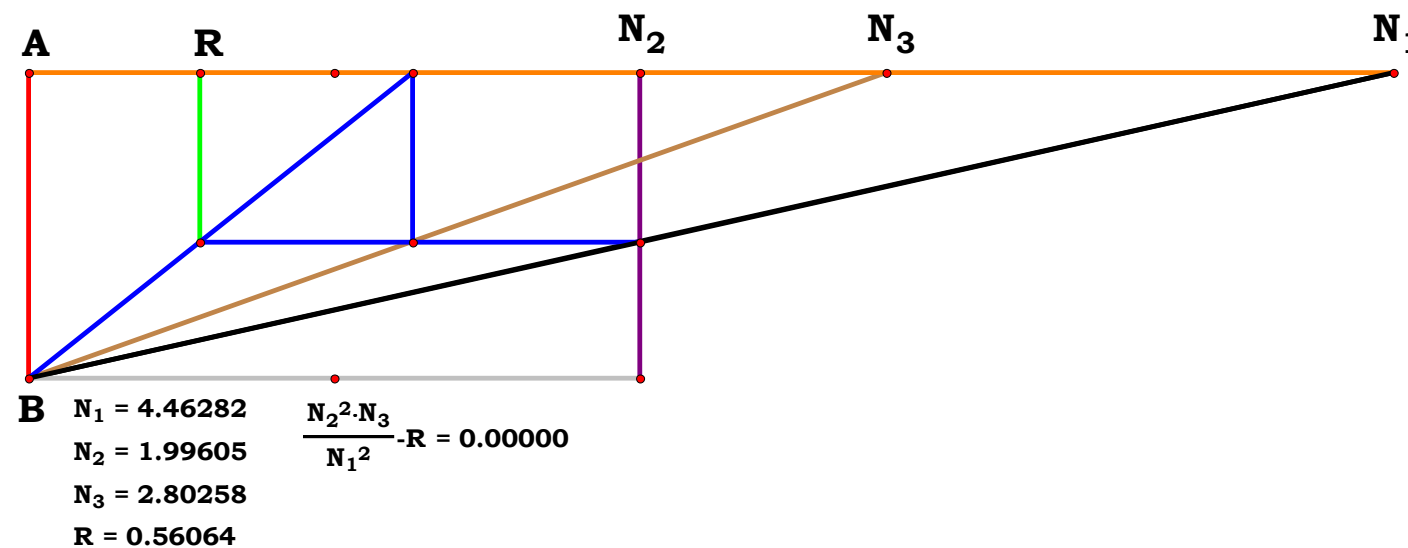
$$\mathbf{R} - \frac{\mathbf{y}^2 \cdot \mathbf{z} \cdot \mathbf{o}^2}{\mathbf{x}^2 \cdot \mathbf{p}^2 \cdot \mathbf{q}} = \mathbf{0}$$



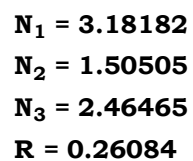
Unit. AB := 1 Given. $N_1 := 3.50505$ $N_2 := 1.68687$ $N_3 := 2.32323$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$



1CST3R2


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{AD} := \frac{N_2^2 \cdot N_3}{N_1^2} \quad \mathbf{CR} := \frac{N_1 - N_2}{N_1}$$

$$\mathbf{DR} := \frac{\mathbf{AD} \cdot \mathbf{CR}}{\mathbf{AB}} \quad \mathbf{R} := \mathbf{AD} - \mathbf{DR}$$

R = 0.260844

Definitions.

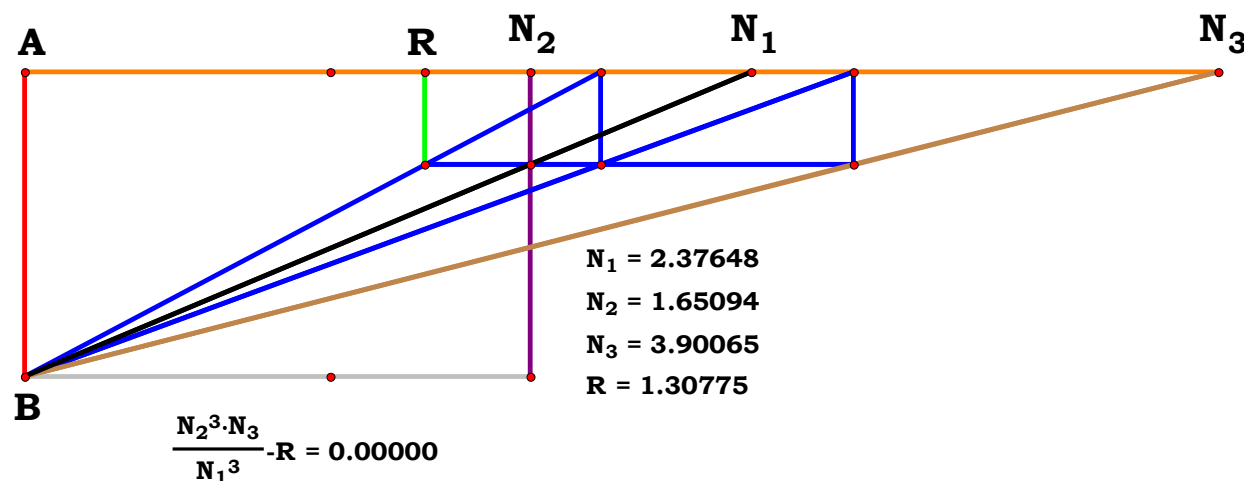
$$R - \frac{N_2^3 \cdot N_3}{N_1^3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^3 \cdot \mathbf{N}_u}{\mathbf{B}^3 \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y}^3 \cdot \mathbf{Z} \cdot \mathbf{o}^3}{\mathbf{X}^3 \cdot \mathbf{p}^3 \cdot \mathbf{q}} = \mathbf{0}$$



Descriptions.

$$R := \frac{AD \cdot AB}{CD} \quad R = 0.822767$$

Definitions.

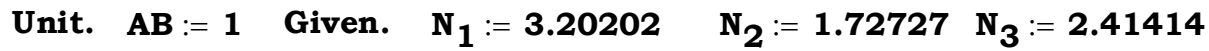
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^3 \cdot \mathbf{N}_u}{\mathbf{B}^2 \cdot \mathbf{C} \cdot (\mathbf{B} - \mathbf{A})} = 0$$

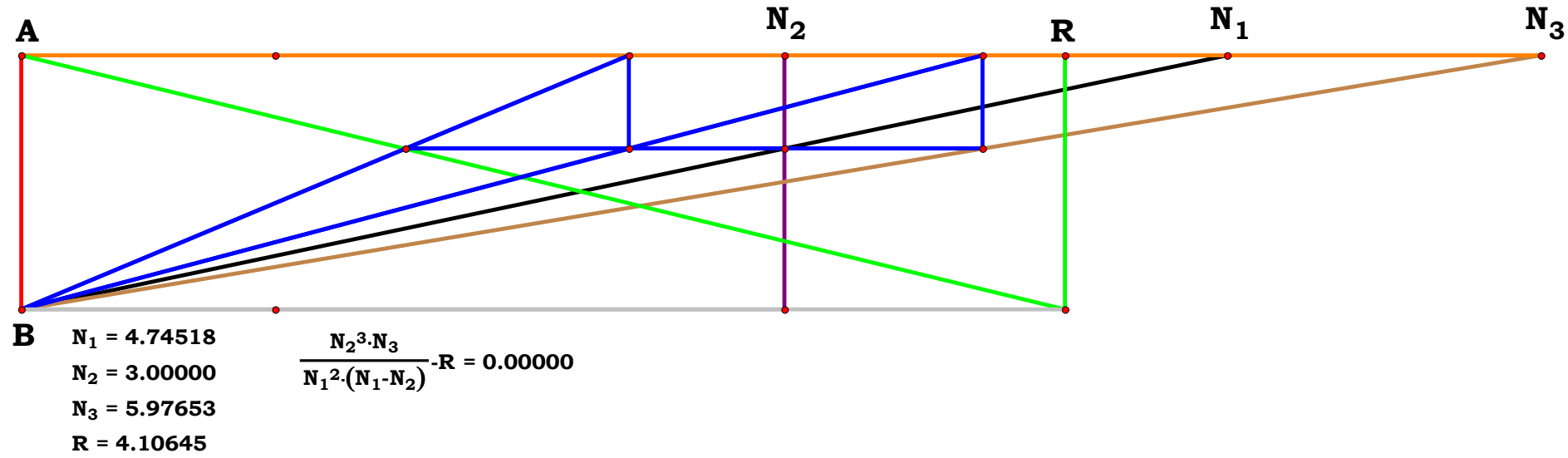
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

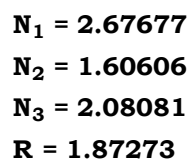
$$\mathbf{R} - \frac{\mathbf{Y}^3 \cdot \mathbf{Z} \cdot \mathbf{o}^3}{\mathbf{X}^2 \cdot \mathbf{p}^2 \cdot \mathbf{q} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})} = 0$$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

$$\mathbf{CD} := \frac{N_1 - N_2}{N_1} \quad \mathbf{AC} := \frac{N_2^2 \cdot N_3}{N_1^2}$$

$$\mathbf{R} := \frac{\mathbf{AC} \cdot \mathbf{AB}}{\mathbf{CD}} \quad \mathbf{R} = 1.872721$$

$$R - \frac{N_2^2 \cdot N_3}{N_1 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

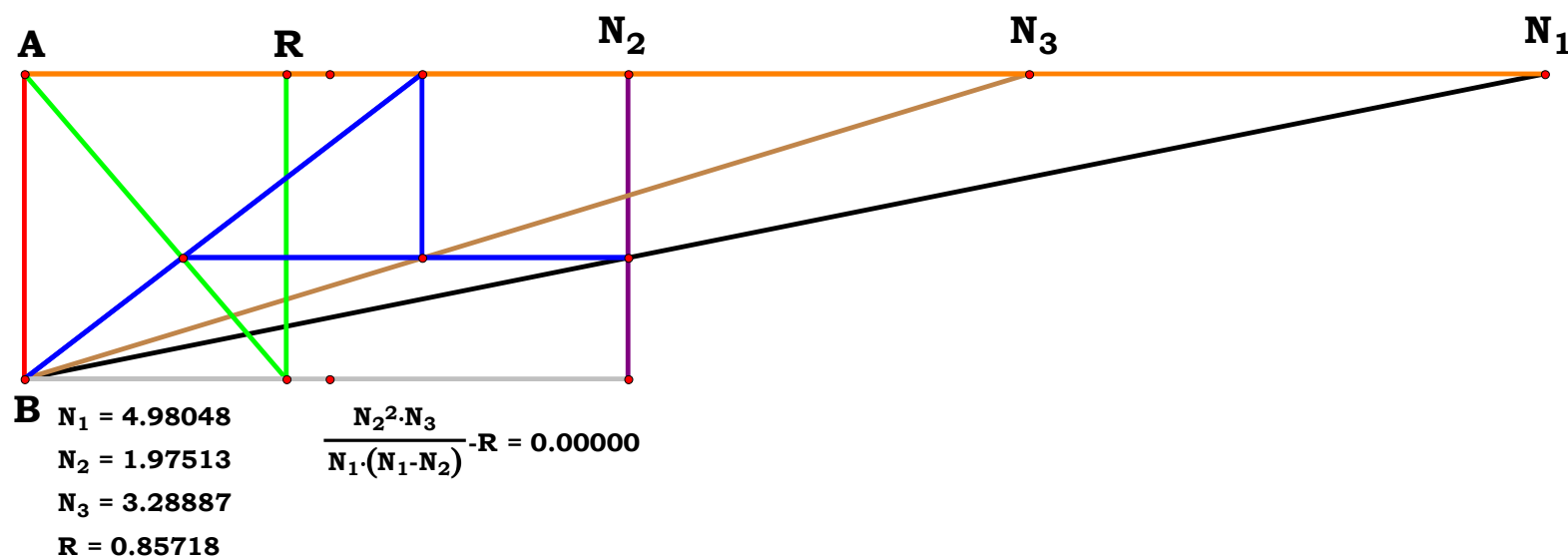
$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^2 \cdot \mathbf{N}_u}{\mathbf{C} \cdot (\mathbf{B}^2 - \mathbf{A} \cdot \mathbf{B})} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0$$

$$\mathbf{N}_3 - \frac{\mathbf{z}}{q} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{Y}^2 \cdot \mathbf{Z} \cdot \mathbf{o}^2}{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})} = 0$$





1CST3R5

Descriptions.

$$AC := \frac{N_2 \cdot N_3}{N_1} \quad CD := \frac{N_1 - N_2}{N_1}$$

$$R := \frac{AC}{CD} \quad R = 2.832666$$

Definitions.

$$R - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0$$

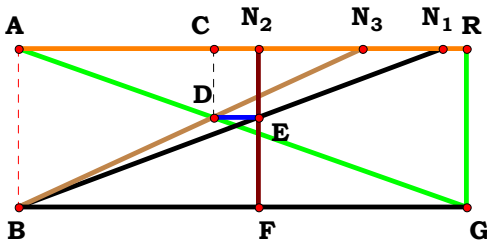
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u}{C \cdot (B - A)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot o}{q \cdot (X \cdot p - Y \cdot o)} = 0$$

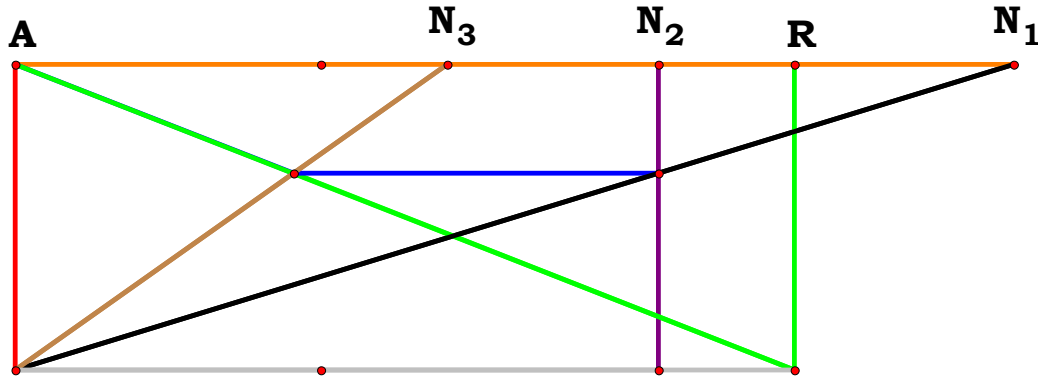


$N_1 = 2.67677$
 $N_2 = 1.51515$
 $N_3 = 2.17172$
 $R = 2.83267$

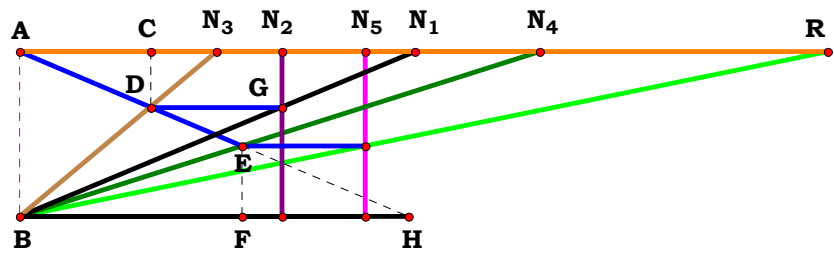
Unit. $AB := 1$ Given. $N_1 := 2.67677$ $N_2 := 1.51515$ $N_3 := 2.17172$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$N_1 = 3.26540$
 $N_2 = 2.10063$
 $N_3 = 1.41168$
 $R = 2.54592$
 $\frac{N_2 \cdot N_3}{N_1 \cdot N_2} - R = 0.00000$



$N_1 = 2.38980$
 $N_2 = 1.58588$
 $N_3 = 1.19349$
 $N_4 = 3.14765$
 $N_5 = 2.09213$
 $R = 4.88919$

Unit. $AB := 1$ Given. $N_1 := 2.38980$ $N_2 := 1.58588$ $N_3 := 1.19349$
 $N_4 := 3.14765$ $N_5 := 2.09213$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$GN_2 := AB - \frac{N_2}{N_1} \quad CN_3 := N_3 \cdot GN_2$$

$$AC := N_3 - CN_3 \quad BH := \frac{AC}{GN_2}$$

$$BF := \frac{BH \cdot N_4}{BH + N_4} \quad EF := \frac{BF}{N_4}$$

$$R := \frac{N_5}{EF} \quad R = 4.889171$$

Definitions.

$$R - \frac{N_5 \cdot [N_1 \cdot N_4 + N_2 \cdot (N_3 - N_4)]}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

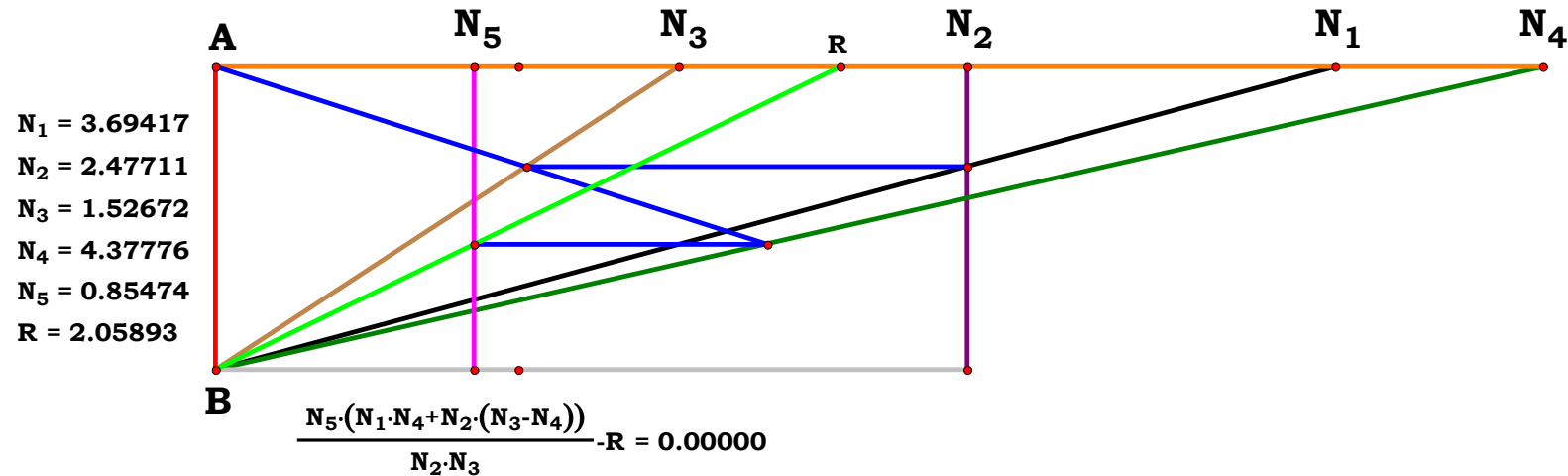
$$R - \frac{N_u \cdot (A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n + W \cdot X \cdot l \cdot o - W \cdot Y \cdot l \cdot n)}{W \cdot X \cdot l \cdot o \cdot p} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$





1CST4R0

Descriptions.

$$DN := 1 - \frac{N_2}{N_1} \quad R := \frac{N_3 \cdot DN}{AB}$$

R = 0.814315

Definitions.

$$R - \frac{N_3 \cdot (N_1 - N_2)}{N_1} = 0$$

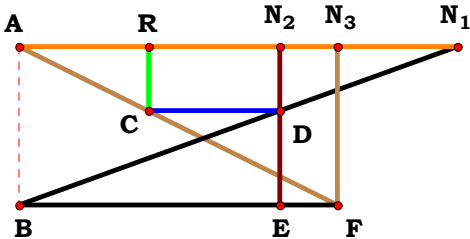
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (B - A)}{B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p - Y \cdot o)}{X \cdot p \cdot q} = 0$$

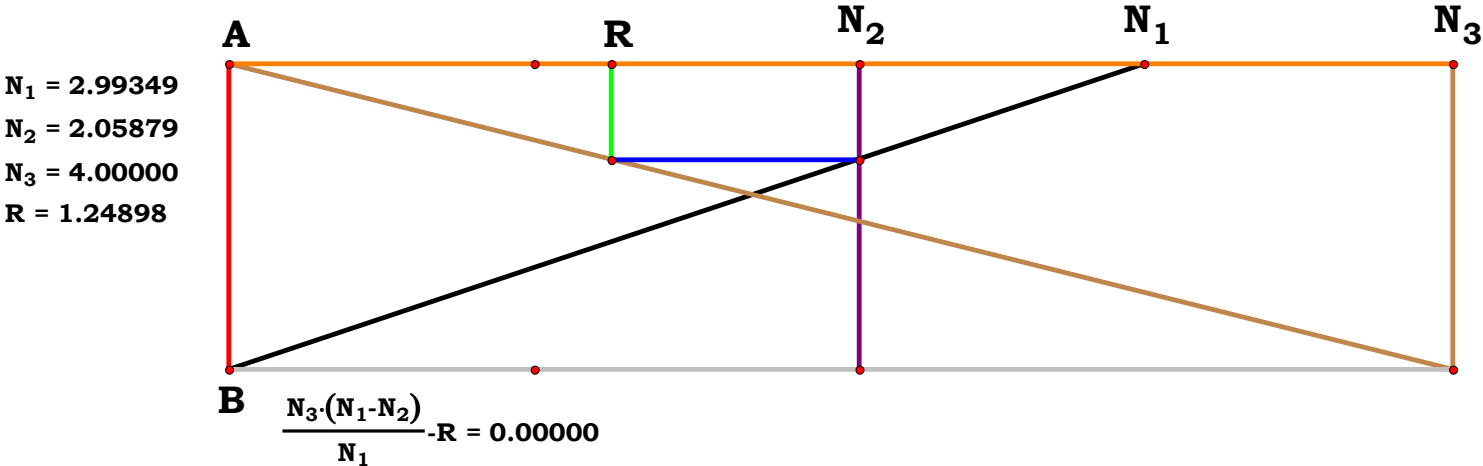


N₁ = 2.76768
N₂ = 1.64646
N₃ = 2.01010
R = 0.81431

Unit. AB := 1 Given. N₁ := 2.76768 N₂ := 1.64646 N₃ := 2.01010

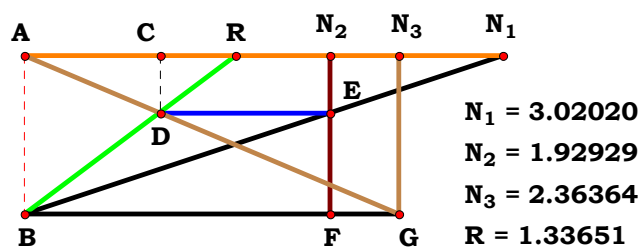
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

X := 20 Y := 19 Z := 18 o := $\frac{X}{N_1}$ p := $\frac{Y}{N_2}$ q := $\frac{Z}{N_3}$



N₁ = 2.99349
N₂ = 2.05879
N₃ = 4.00000
R = 1.24898

1CST4R1


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{CD} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{AC} := \frac{\mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2)}{\mathbf{N}_1}$$

$$\mathbf{R} := \frac{\mathbf{AC}}{\mathbf{AB} - \mathbf{CD}}$$

R = 1.336512

Definitions.

$$R - \frac{N_3 \cdot (N_1 - N_2)}{N_2} = 0$$

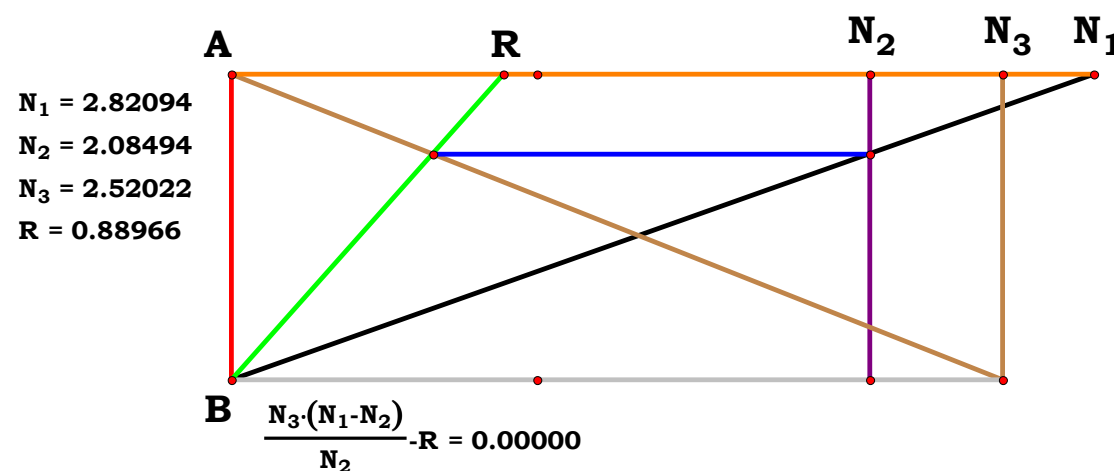
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{B} - \mathbf{A})}{\mathbf{A} \cdot \mathbf{C}} = 0$$

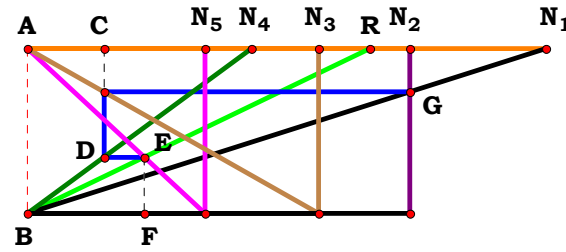
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})}{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}} = 0$$





1CST4R2



$N_1 = 3.13560$
 $N_2 = 2.31231$
 $N_3 = 1.76495$
 $N_4 = 1.35578$
 $N_5 = 1.07512$
 $R = 2.07033$

Unit. $AB := 1$ Given. $N_1 := 3.13560$ $N_2 := 2.31231$ $N_3 := 1.76495$ $N_4 := 1.35578$

$N_5 := 1.07512$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$GN_2 := AB - \frac{N_2}{N_1} \quad AC := N_3 \cdot GN_2$$

$$CD := \frac{N_4 - AC}{N_4} \quad BF := N_5 \cdot CD$$

$$R := \frac{BF}{AB - CD} \quad R = 2.070321$$

Definitions.

$$R - \frac{N_5 \cdot [N_1 \cdot (N_4 - N_3) + N_2 \cdot N_3]}{N_3 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

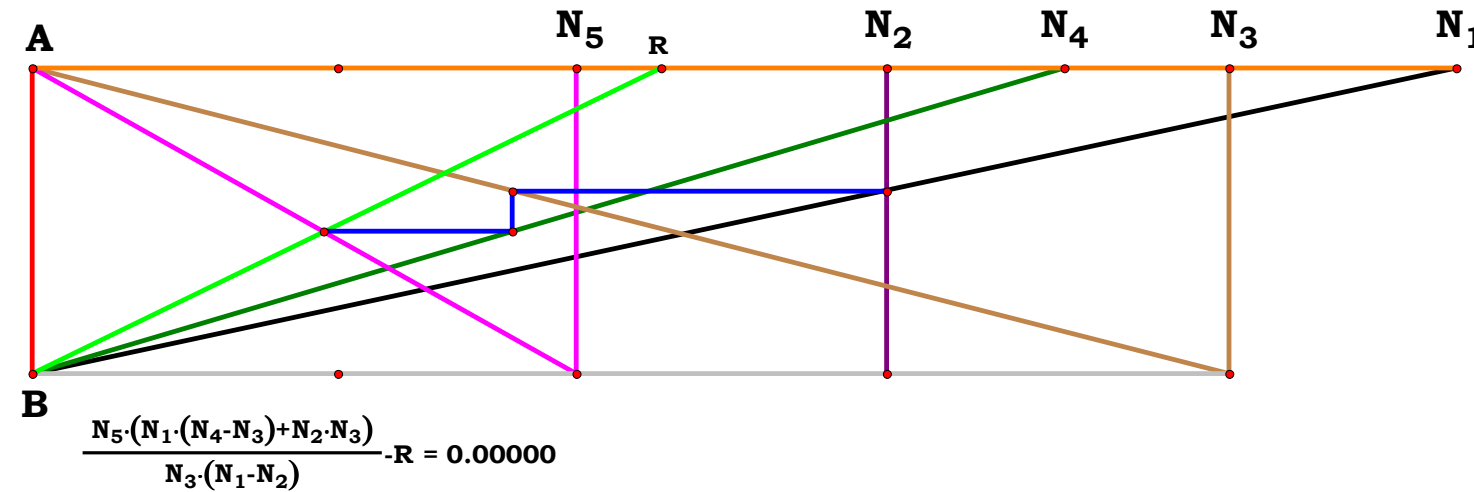
$$R - \frac{N_u \cdot (A \cdot D + B \cdot C - B \cdot D)}{D \cdot E \cdot (B - A)} = 0$$

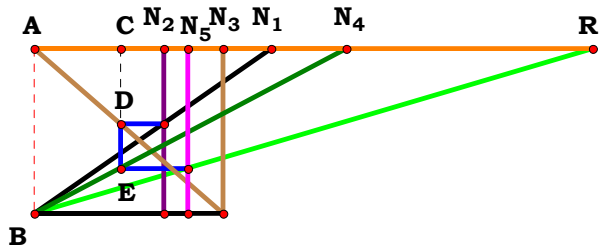
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - V \cdot X \cdot m \cdot o + W \cdot X \cdot l \cdot o)}{X \cdot o \cdot p \cdot (V \cdot m - W \cdot l)} = 0$$

$N_1 = 4.65629$
 $N_2 = 2.79084$
 $N_3 = 3.91111$
 $N_4 = 3.37381$
 $N_5 = 1.78026$
 $R = 2.05294$





$N_1 = 1.43090$
 $N_2 = 0.78196$
 $N_3 = 1.14506$
 $N_4 = 1.88850$
 $N_5 = 0.92984$
 $R = 3.38140$

Unit. $AB := 1$ Given. $N_1 := 1.43090$ $N_2 := .78196$ $N_3 := 1.14506$ $N_4 := 1.88850$
 $N_5 := .92984$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$CD := AB - \frac{N_2}{N_1} \quad AC := N_3 \cdot CD$$

$$CE := \frac{N_4 - AC}{N_4} \quad R := \frac{N_5}{AB - CE}$$

$$R = 3.38144$$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

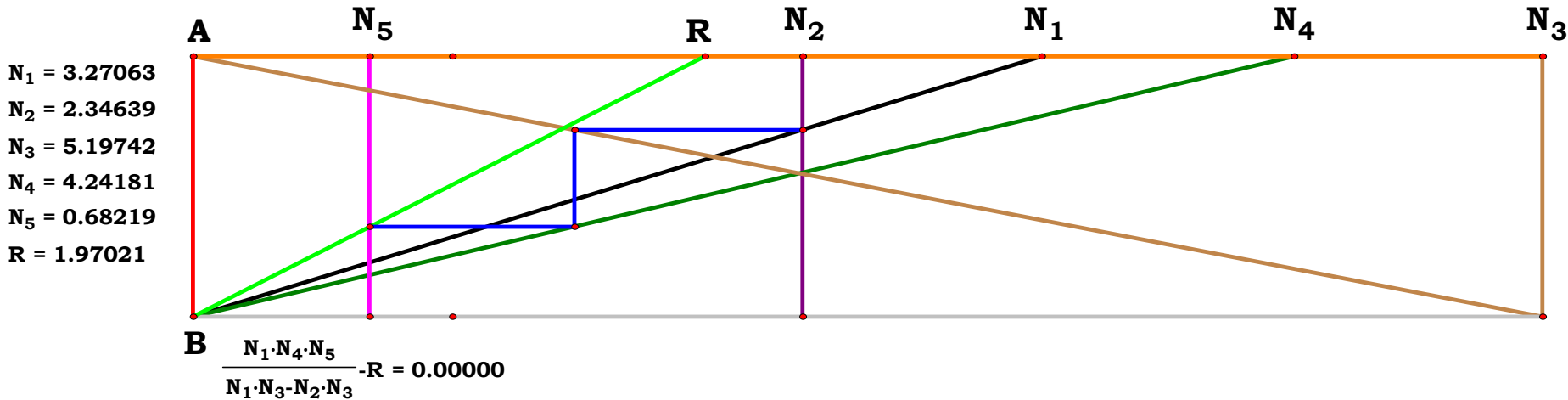
$$R - \frac{B \cdot C \cdot N_u}{D \cdot E \cdot (B - A)} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0$$

$$N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot n}{X \cdot o \cdot p \cdot (V \cdot m - W \cdot 1)} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$





1CST4R4

Descriptions.

$$CD := \frac{N_3}{N_1 + N_3} \quad R := \frac{N_2}{CD}$$

R = 3.923267

Definitions.

$$R - \frac{N_2 \cdot (N_1 + N_3)}{N_3} = 0$$

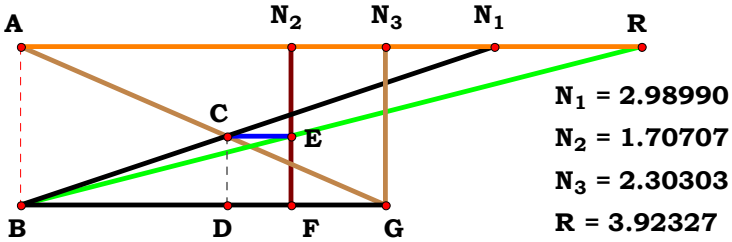
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A + C)}{A \cdot B} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

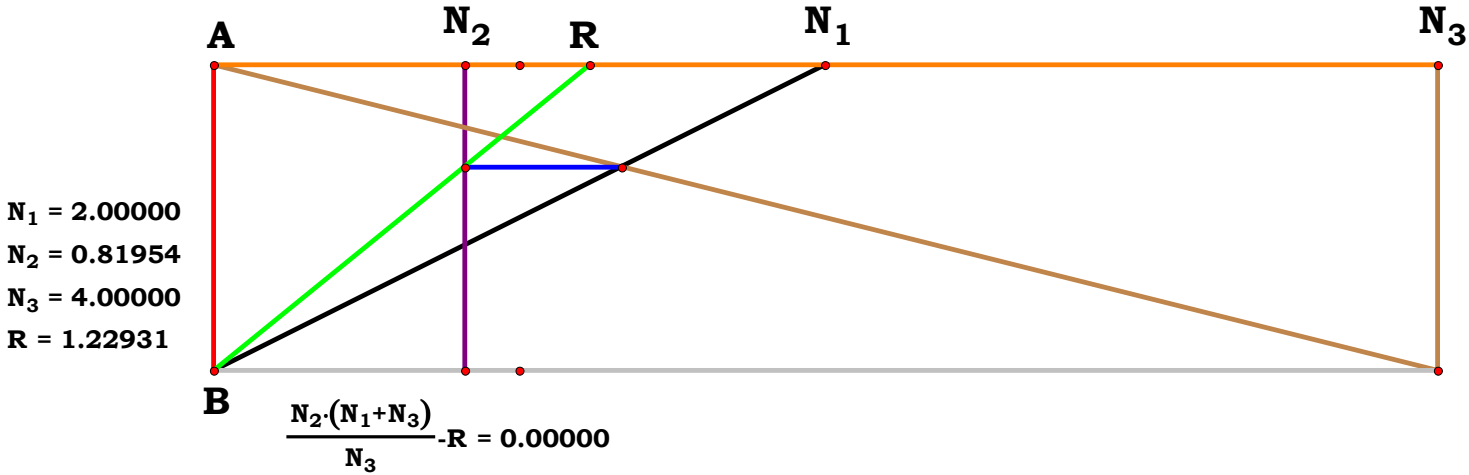
$$R - \frac{Y \cdot (X \cdot q + Z \cdot o)}{Z \cdot o \cdot p} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.98990$ $N_2 := 1.70707$ $N_3 := 2.30303$

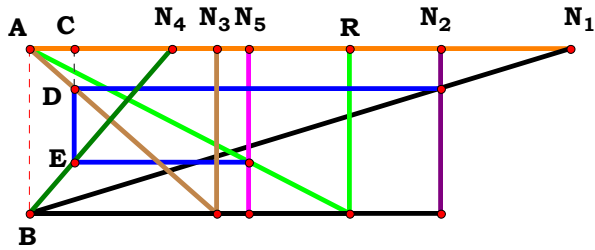
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$





1CST4R5



$N_1 = 3.27120$
 $N_2 = 2.48665$
 $N_3 = 1.13537$
 $N_4 = 0.86181$
 $N_5 = 1.32695$
 $R = 1.93989$

Unit. $AB := 1$ Given. $N_1 := 3.27120$ $N_2 := 2.48665$ $N_3 := 1.13537$ $N_4 := .86181$
 $N_5 := 1.32695$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$CD := AB - \frac{N_2}{N_1} \quad AC := N_3 \cdot CD$$

$$CE := \frac{N_4 - AC}{N_4} \quad R := \frac{N_5}{CE}$$

$R = 1.939887$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

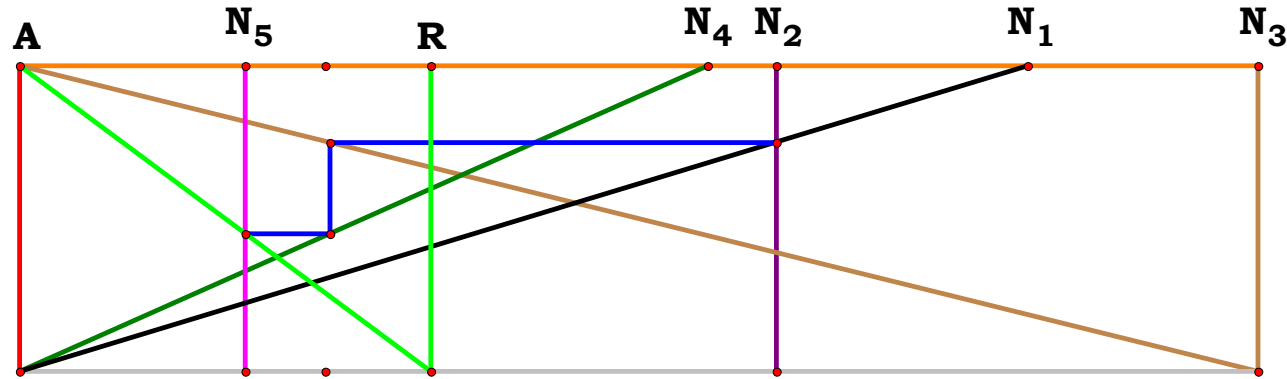
$$R - \frac{B \cdot C \cdot N_u}{E \cdot (A \cdot D + B \cdot C - B \cdot D)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot n}{p \cdot (V \cdot Y \cdot m \cdot n - V \cdot X \cdot m \cdot o + W \cdot X \cdot l \cdot o)} = 0$$

$N_1 = 3.29677$
 $N_2 = 2.47188$
 $N_3 = 4.04706$
 $N_4 = 2.24959$
 $N_5 = 0.73971$
 $R = 1.34526$



$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} \cdot R = 0.00000$$

1CST4R6

$$\mathbf{CD} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_3} \quad \mathbf{R} := \frac{\mathbf{N}_2}{\mathbf{CD}}$$
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot (\mathbf{N}_1 + \mathbf{N}_3)}{\mathbf{N}_1} = 0$$

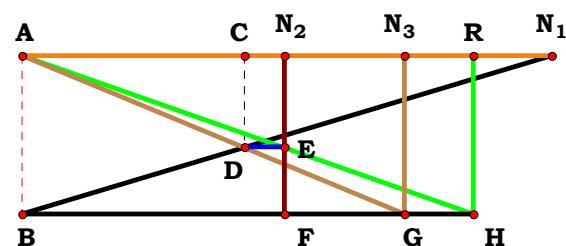
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{C})}{\mathbf{B} \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot (\mathbf{X} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{o})}{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}} = \mathbf{0}$$

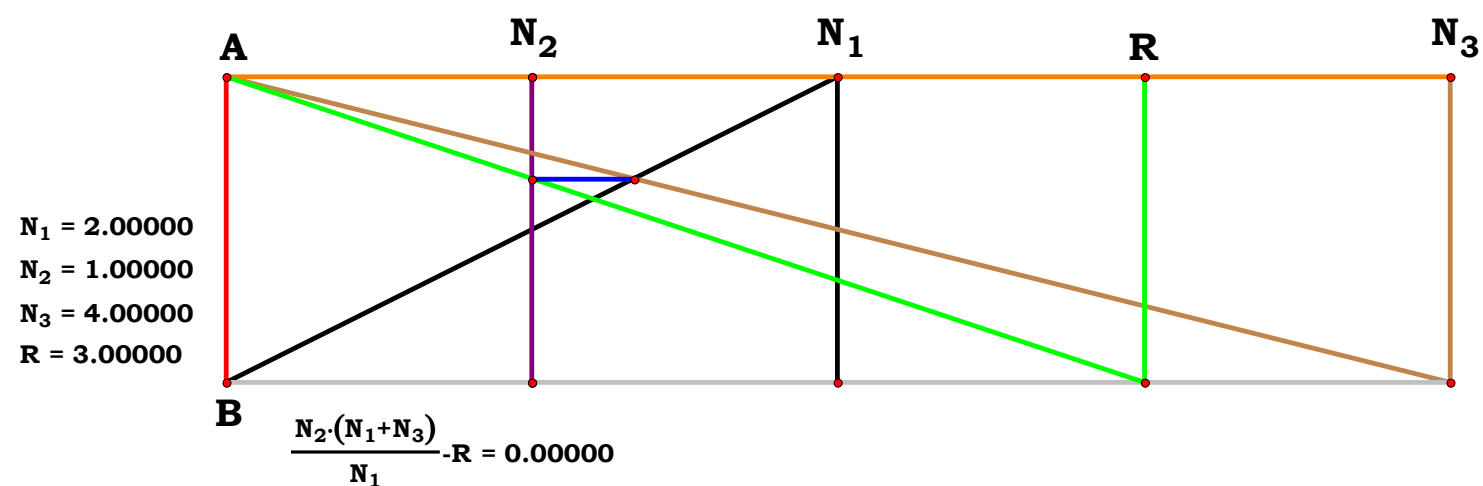


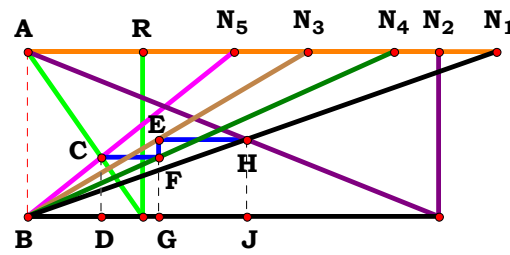
$N_1 = 3.34343$
 $N_2 = 1.65657$
 $N_3 = 2.41414$
 $R = 2.85270$

Unit. AB := 1 Given. $N_1 := 3.34343$ $N_2 := 1.65657$ $N_3 := 2.41414$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$





$N_1 = 2.83534$
 $N_2 = 2.48665$
 $N_3 = 1.69715$
 $N_4 = 2.21782$
 $N_5 = 1.24947$
 $R = 0.69538$

Unit. $AB := 1$ Given. $N_1 := 2.83534$ $N_2 := 2.48665$ $N_3 := 1.69715$ $N_4 := 2.21782$
 $N_5 := 1.24947$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$BJ := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad HJ := \frac{BJ}{N_1}$$

$$BG := N_3 \cdot HJ \quad FG := \frac{BG}{N_4}$$

$$BD := N_5 \cdot FG \quad R := \frac{BD}{AB - FG}$$

$$R = 0.695376$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

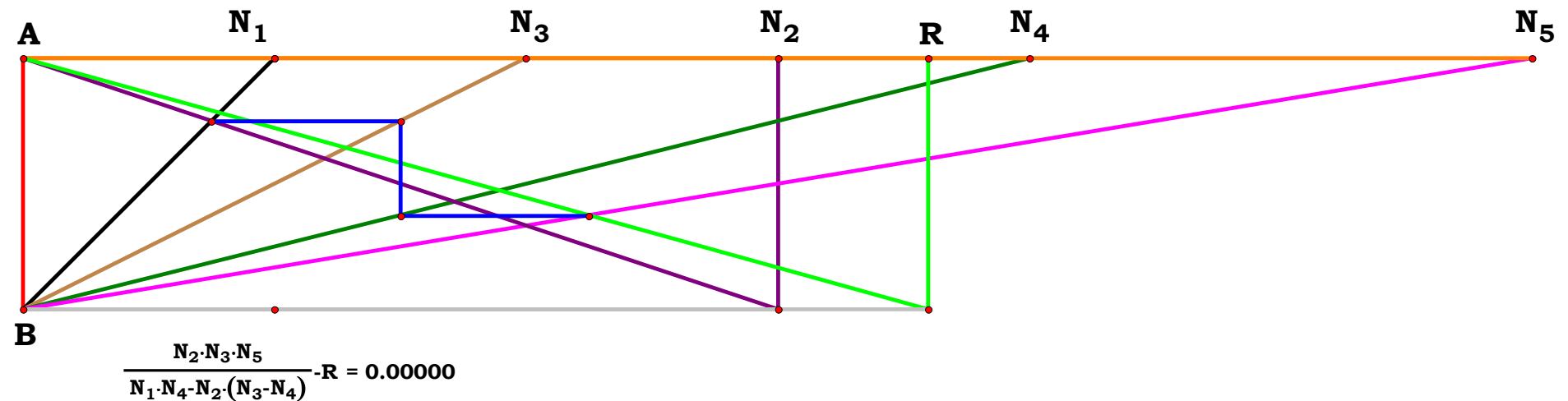
$$R - \frac{A \cdot D \cdot N_u}{E \cdot (A \cdot C - A \cdot D + B \cdot C)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot l \cdot o}{p \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)} = 0$$

$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $N_4 = 4.00000$
 $N_5 = 6.00000$
 $R = 3.60000$





1CST5R1

Descriptions.

$$\text{CH} := \frac{N_1}{N_1 + N_3} \quad \text{RN} := N_2 \cdot \text{CH}$$

$$R := N_2 - \text{RN} \quad R = 0.79565$$

Definitions.

$$R - \frac{N_2 \cdot N_3}{N_1 + N_3} = 0$$

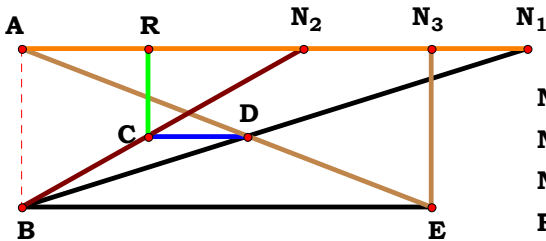
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u}{B \cdot (A + C)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot o}{X \cdot p \cdot q + Z \cdot o \cdot p} = 0$$



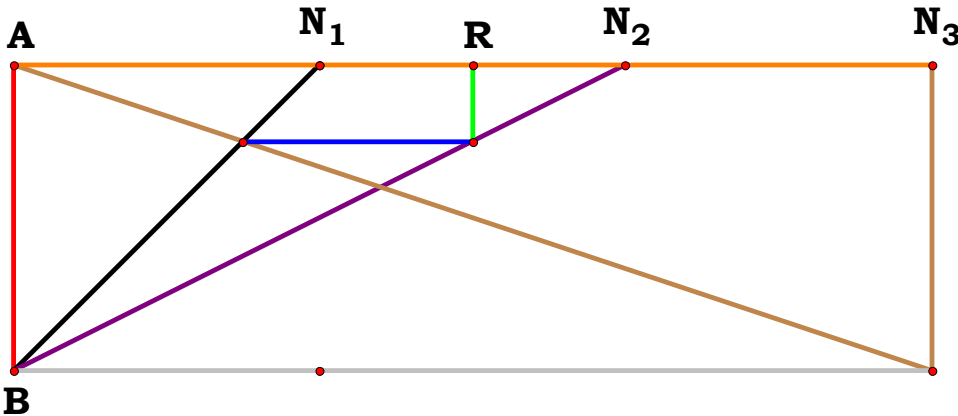
$$\begin{aligned} N_1 &= 3.19192 \\ N_2 &= 1.77778 \\ N_3 &= 2.58586 \\ R &= 0.79565 \end{aligned}$$

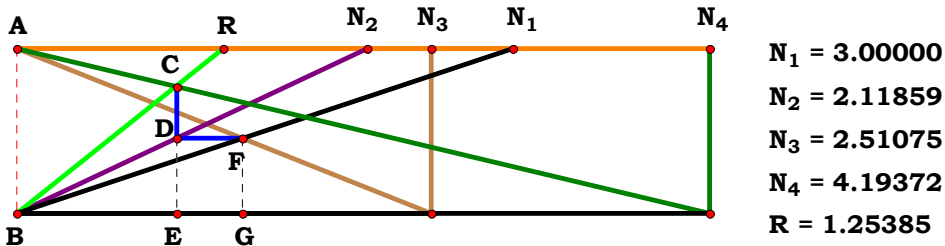
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.19192 \quad N_2 := 1.77778 \quad N_3 := 2.58586$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 2.00000 \\ N_3 &= 3.00000 \\ R &= 1.50000 \\ \frac{N_2 \cdot N_3}{N_1 + N_3} - R &= 0.00000 \end{aligned}$$





Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.11859$ $N_3 := 2.51075$ $N_4 := 4.19372$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$BG := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad FG := \frac{BG}{N_1}$$

$$BE := N_2 \cdot FG \quad CE := \frac{N_4 - BE}{N_4}$$

$$R := \frac{BE}{CE} \quad R = 1.253841$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0$$

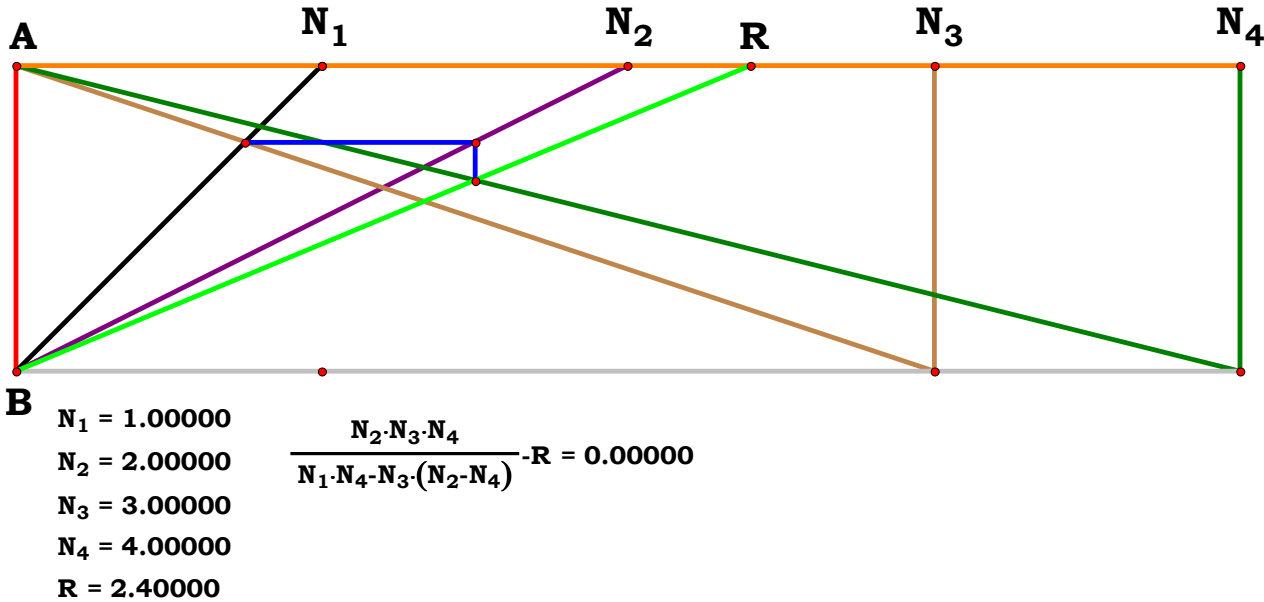
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

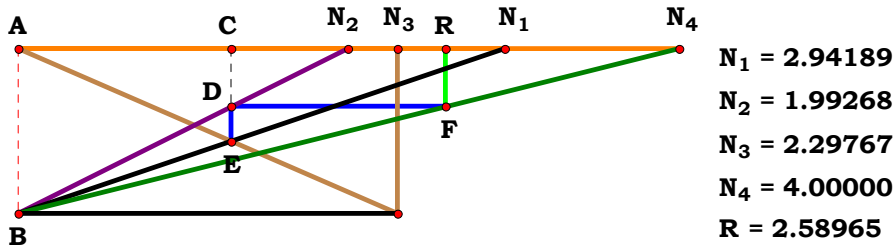
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u}{A \cdot B - A \cdot D + B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot m}{W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + Y \cdot Z \cdot m \cdot n} = 0$$





Descriptions.

$$AC := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad CD := AB - \frac{AC}{N_2}$$

$$RN_4 := N_4 \cdot CD \quad R := N_4 - RN_4$$

$$R = 2.589654$$

Definitions.

$$R - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot N_u}{D \cdot (A + C)} = 0$$

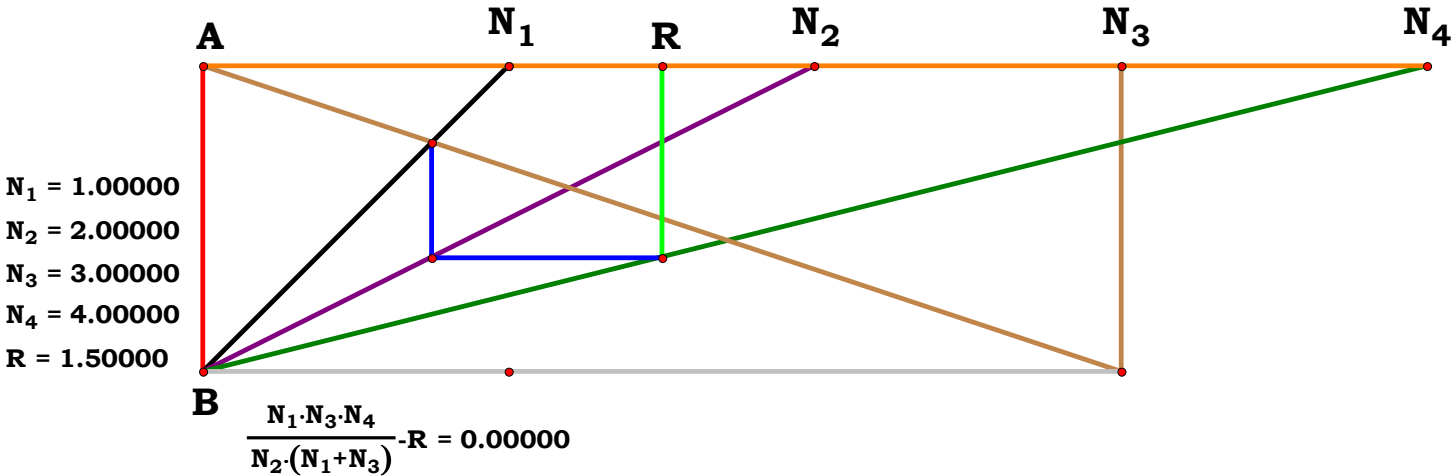
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

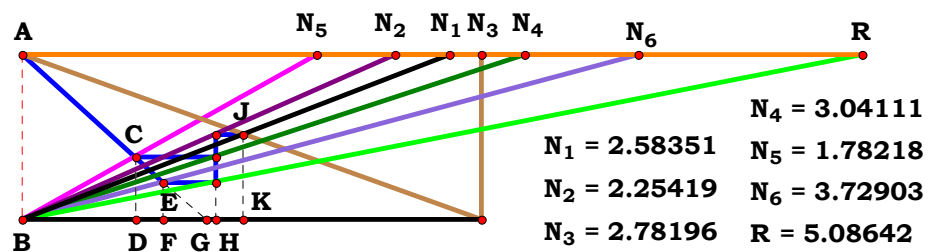
$$R - \frac{W \cdot Y \cdot Z \cdot n}{X \cdot p \cdot (W \cdot o + Y \cdot m)} = 0$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.94189 \quad N_2 := 1.99268 \quad N_3 := 2.29767 \quad N_4 := 4$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





Descriptions.

$$BK := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad JK := AB - \frac{N_1 - BK}{N_1}$$

$$BH := N_2 \cdot JK \quad CD := AB - \frac{N_4 - BH}{N_4}$$

$$BD := N_5 \cdot CD \quad BG := \frac{BD}{AB - CD}$$

$$BF := \frac{BG \cdot N_6}{BG + N_6} \quad EF := \frac{BF}{N_6}$$

$$R := \frac{BH}{EF} \quad R = 5.086437$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]}{B \cdot D \cdot F \cdot (A + C)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{U \cdot X \cdot Z \cdot l \cdot m \cdot o + V \cdot W \cdot Y \cdot k \cdot n \cdot p - V \cdot W \cdot Z \cdot k \cdot n \cdot o + W \cdot X \cdot Z \cdot k \cdot l \cdot o}{Y \cdot l \cdot n \cdot p \cdot (U \cdot m + W \cdot k)} = 0$$

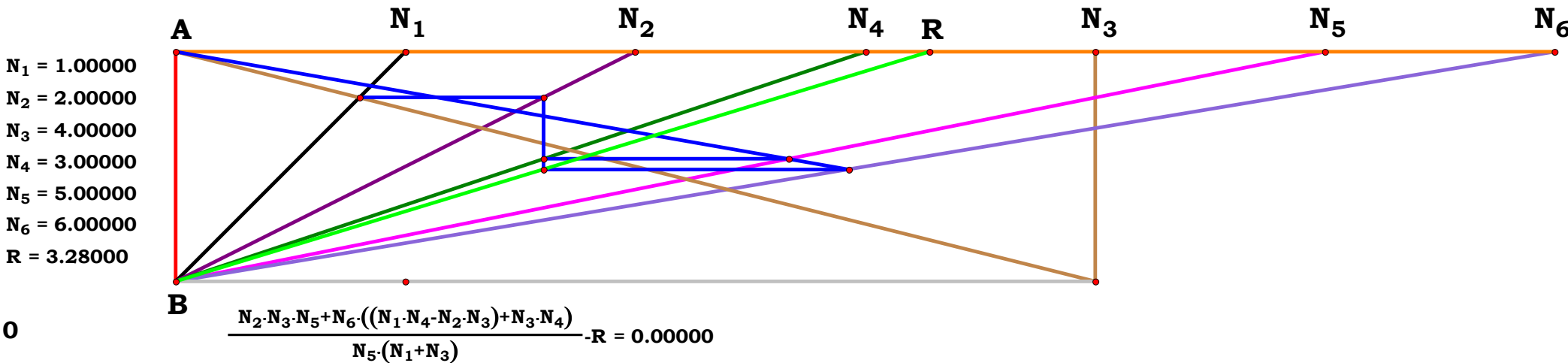
Unit. $AB := 1$ Given. $N_1 := 2.58351$ $N_2 := 2.25419$ $N_3 := 2.78196$ $N_4 := 3.04111$

$N_5 := 1.78218$ $N_6 := 3.72903$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



Descriptions.

$$\mathbf{BE} := \mathbf{N}_2 \cdot \mathbf{FH} \quad \mathbf{DE} := \frac{\mathbf{BE}}{\mathbf{N}_4}$$

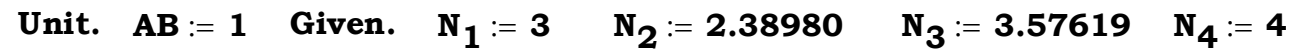
Definitions.

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

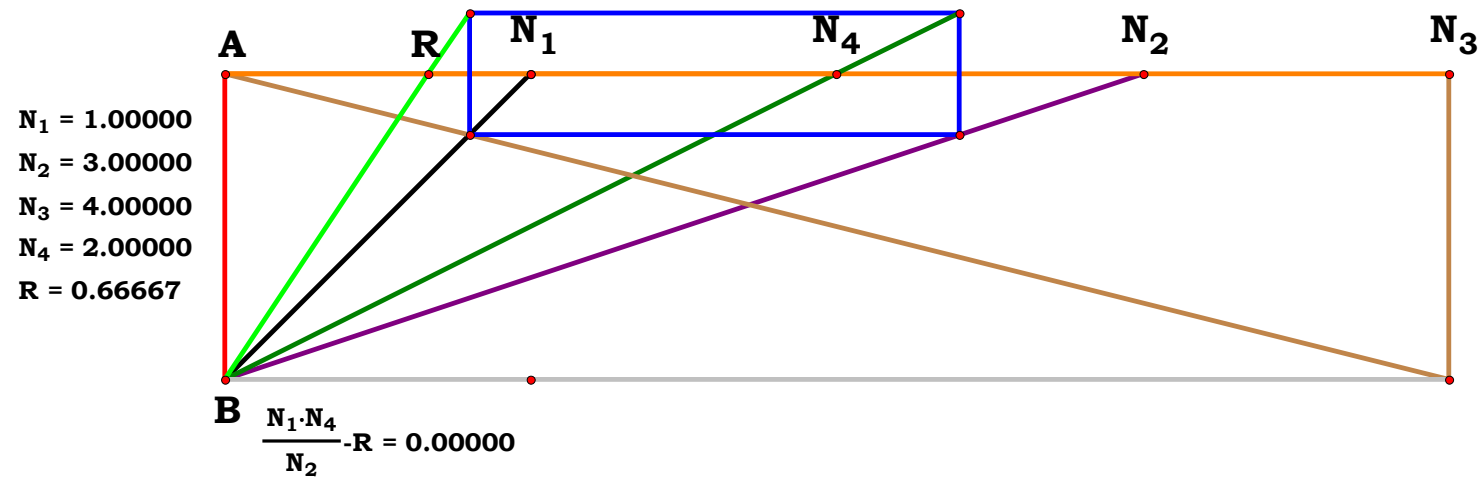
$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{N}_u}{\mathbf{A} \cdot \mathbf{D}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

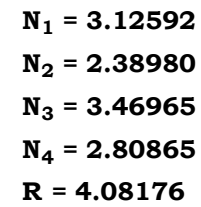
$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n}}{\mathbf{X} \cdot \mathbf{m} \cdot \mathbf{p}} = \mathbf{0}$$



$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$



1CST5R6


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$
$$\text{AC} := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad \text{CD} := \frac{N_2 - \text{AC}}{N_2}$$

$$R := \frac{N_4}{AB - CD} \quad R = 4.081765$$

$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_1 + \mathbf{N}_3)}{\mathbf{N}_1 \cdot \mathbf{N}_3} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

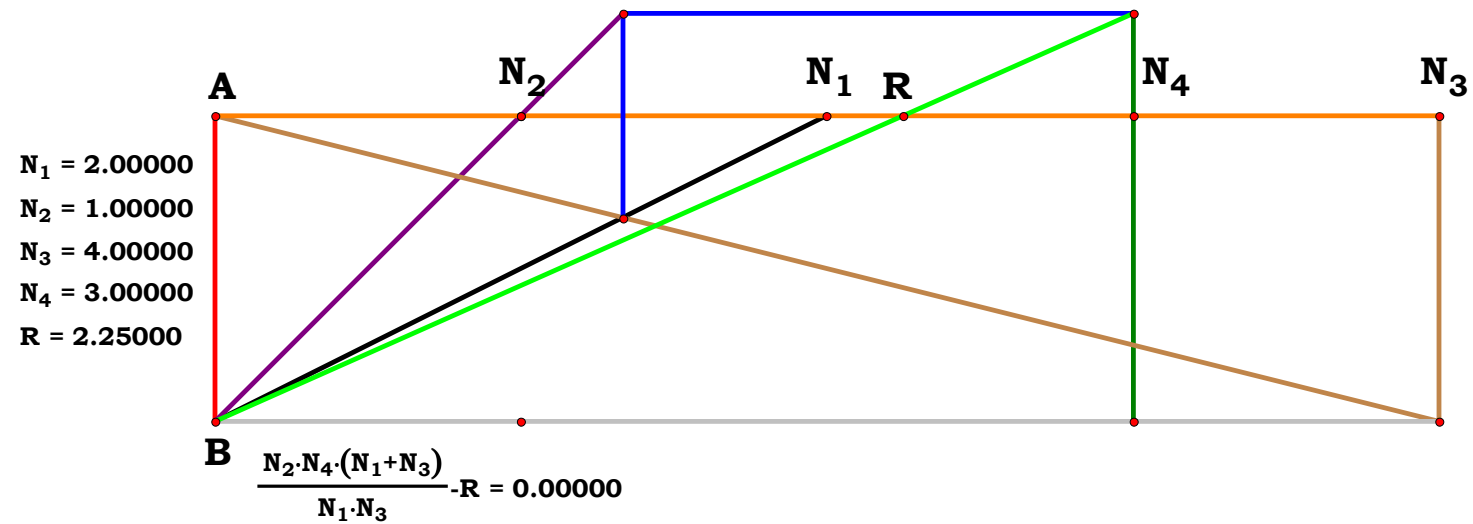
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

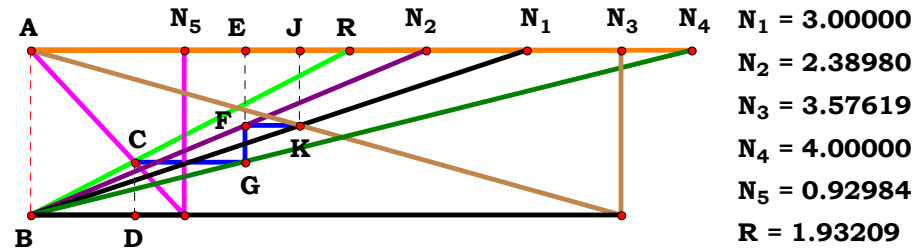
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{C})}{\mathbf{B} \cdot \mathbf{D}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{m})}{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} \cdot \mathbf{p}} = 0$$





Descriptions.

$$AJ := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad JK := \frac{AJ}{N_3}$$

$$AE := N_2 \cdot (AB - JK) \quad CD := \frac{AE}{N_4}$$

$$BD := N_5 \cdot (AB - CD) \quad R := \frac{BD}{CD}$$

$$R = 1.932099$$

Definitions.

$$R - \frac{N_5 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4)}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0$$

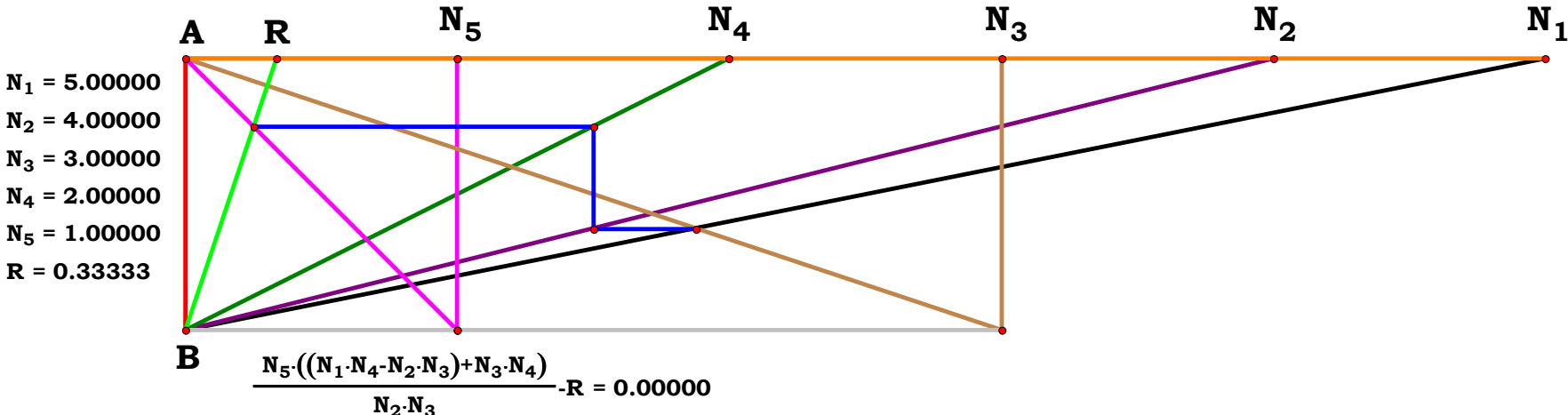
$$N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

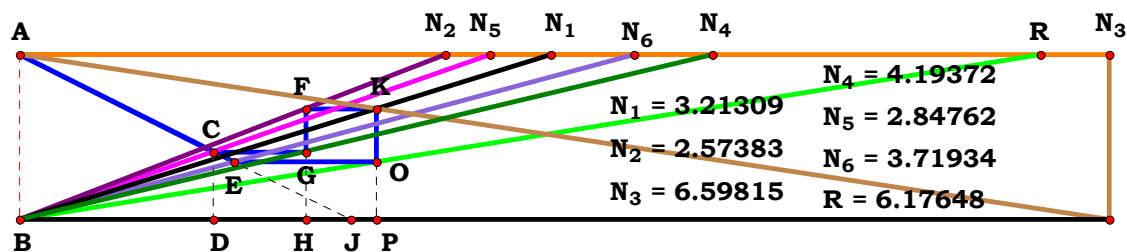
$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + X \cdot Y \cdot l \cdot m)}{W \cdot X \cdot l \cdot o \cdot p} = 0$$

Unit. $AB := 1$ Given. $N_1 := 3 \quad N_2 := 2.38980 \quad N_3 := 3.57619 \quad N_4 := 4$
 $N_5 := .92984$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$





Unit. $AB := 1$ Given. $N_1 := 3.21309$ $N_2 := 2.57383$ $N_3 := 6.59815$
 $N_4 := 4.19372$ $N_5 := 2.84762$ $N_6 := 3.71934$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$BP := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad KP := \frac{BP}{N_1}$$

$$BH := N_2 \cdot KP \quad GH := \frac{BH}{N_4}$$

$$BD := N_5 \cdot GH \quad BJ := \frac{BD}{AB - GH}$$

$$OP := \frac{BJ}{BJ + N_6} \quad R := \frac{BP}{OP}$$

$R = 6.176477$

Definitions.

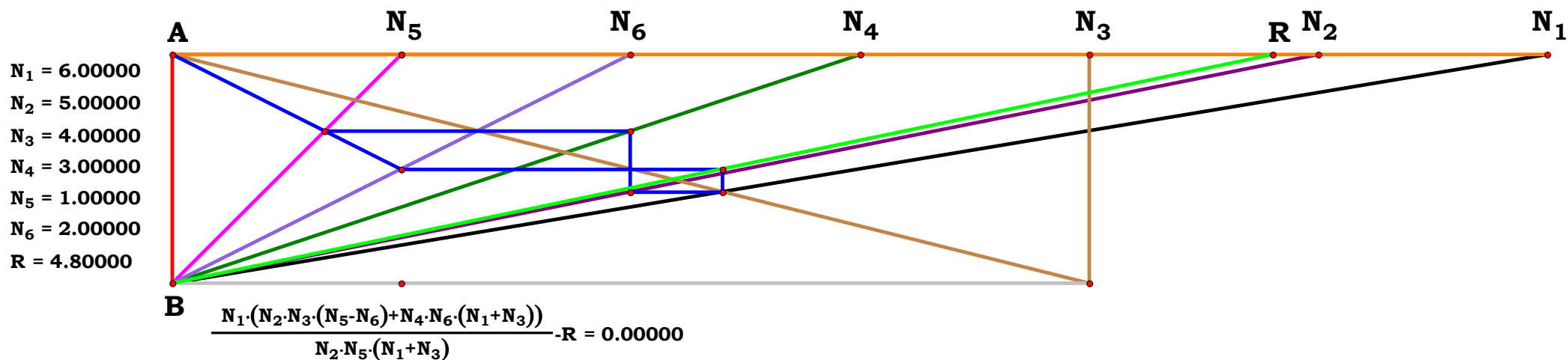
$$R - \frac{N_1 \cdot [N_2 \cdot N_3 \cdot (N_5 - N_6) + N_4 \cdot N_6 \cdot (N_1 + N_3)]}{N_2 \cdot N_5 \cdot (N_1 + N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot [A \cdot E \cdot (B - D) + B \cdot C \cdot E + A \cdot D \cdot F]}{A \cdot D \cdot F \cdot (A + C)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{U \cdot (U \cdot X \cdot Z \cdot l \cdot m \cdot o + V \cdot W \cdot Y \cdot k \cdot n \cdot p - V \cdot W \cdot Z \cdot k \cdot n \cdot o + W \cdot X \cdot Z \cdot k \cdot l \cdot o)}{V \cdot Y \cdot k \cdot n \cdot p \cdot (U \cdot m + W \cdot k)} = 0$$





1CST5R9

Unit. $AB := 1$ Given. $N_1 := 2.61257$ $N_2 := 2.16702$ $N_3 := 4.99031$ $N_4 := 3.18639$

$N_5 := 1.44318$ $N_6 := 4.51358$ $N_7 := 1.61753$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$$BQ := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad KO := \frac{BQ}{N_1}$$

$$BO := N_2 \cdot KO \quad MO := \frac{BO}{N_4}$$

$$BD := N_5 \cdot MO \quad BG := \frac{BD}{AB - MO}$$

$$BF := \frac{BG \cdot N_6}{BG + N_6}$$

$$EF := \frac{BF}{N_6}$$

$$BJ := N_7 \cdot (AB - EF)$$

$$R := \frac{BJ}{EF}$$

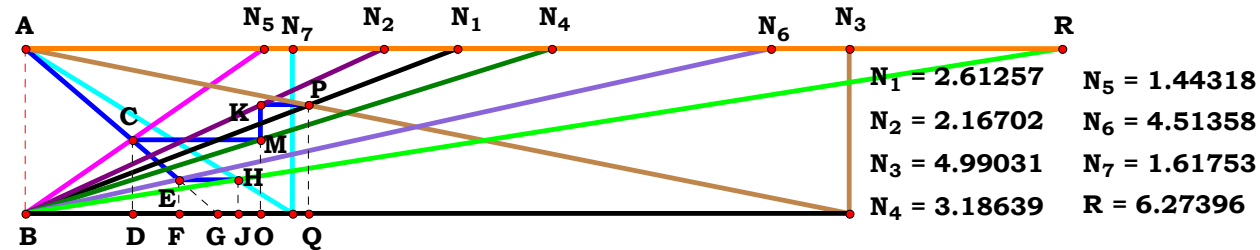
$$R = 6.273998$$

Definitions.

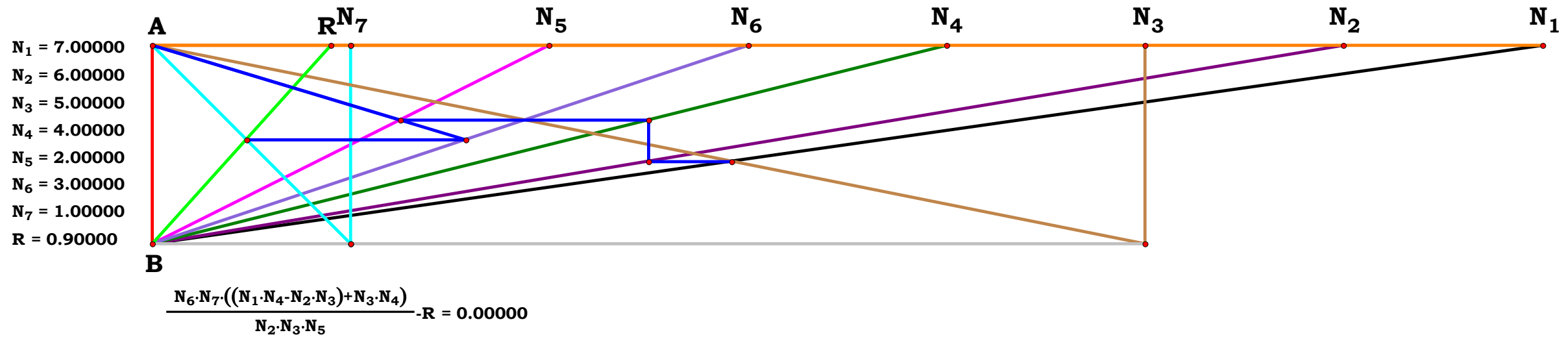
$$R - \frac{N_6 \cdot N_7 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{E \cdot N_u \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot F \cdot G} = 0 \quad N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot n \cdot (T \cdot W \cdot k \cdot l - U \cdot V \cdot j \cdot m + V \cdot W \cdot j \cdot k)}{U \cdot V \cdot X \cdot j \cdot m \cdot o \cdot p} = 0$$



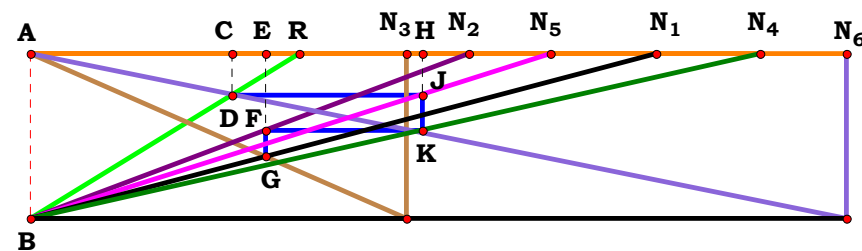
$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$
$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$



Definitions.



Unit. $AB := 1$ Given. $N_1 := 3.78455$ $N_2 := 2.65131$ $N_3 := 2.27829$ $N_4 := 4.41649$ $N_5 := 3.14788$ $N_6 := 4.93975$



$N_1 = 3.78455$ $N_5 = 3.14788$
 $N_2 = 2.65131$ $N_6 = 4.93975$
 $N_3 = 2.27829$ $R = 1.62411$
 $N_4 = 4.41649$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AE := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad EF := \frac{AE}{N_2}$$

$$AH := N_4 \cdot EF \quad HJ := AB - \frac{AH}{N_5}$$

$$AC := N_6 \cdot HJ \quad R := \frac{AC}{AB - HJ}$$

$$R = 1.624109$$

Definitions.

$$R - \frac{N_6 \cdot [N_2 \cdot N_5 \cdot (N_1 + N_3) - N_1 \cdot N_3 \cdot N_4]}{N_1 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

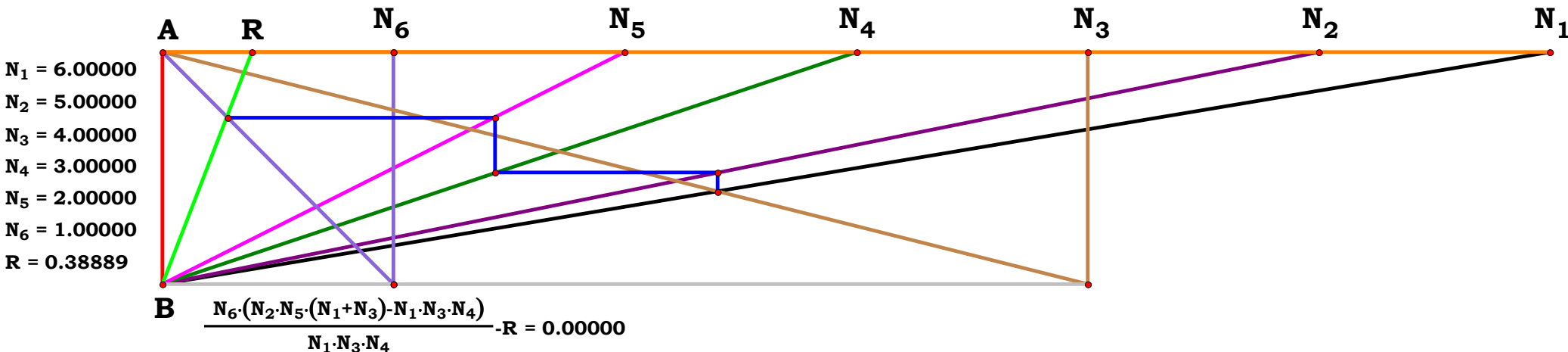
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot (A \cdot D - B \cdot E + C \cdot D)}{B \cdot E \cdot F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

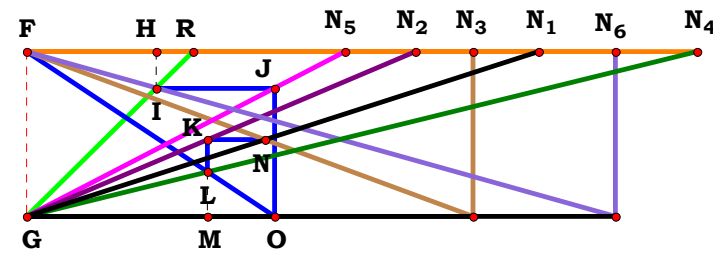
$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (U \cdot V \cdot Y \cdot m \cdot n - U \cdot W \cdot X \cdot l \cdot o + V \cdot W \cdot Y \cdot k \cdot n)}{U \cdot W \cdot X \cdot l \cdot o \cdot p} = 0$$



$N_1 = 6.00000$
 $N_2 = 5.00000$
 $N_3 = 4.00000$
 $N_4 = 3.00000$
 $N_5 = 2.00000$
 $N_6 = 1.00000$
 $R = 0.38889$

$$\frac{N_6 \cdot (N_2 \cdot N_5 \cdot (N_1 + N_3) - N_1 \cdot N_3 \cdot N_4)}{N_1 \cdot N_3 \cdot N_4} - R = 0.00000$$



$N_1 = 3.09686$ $N_5 = 1.92747$
 $N_2 = 2.35105$ $N_6 = 3.56437$
 $N_3 = 2.70447$ $R = 1.01103$
 $N_4 = 4.05811$

Unit. $AB := 1$ Given. $N_1 := 3.09686$ $N_2 := 2.35105$ $N_3 := 2.70447$
 $N_4 := 4.05811$ $N_5 := 1.92747$ $N_6 := 3.56437$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$KM := \frac{N_3}{N_1 + N_3} \quad GM := N_2 \cdot KM$$

$$LM := \frac{GM}{N_4} \quad GO := \frac{GM}{AB - LM}$$

$$JO := \frac{GO}{N_5} \quad FH := N_6 \cdot (AB - JO)$$

$$R := \frac{FH}{JO} \quad R = 1.011031$$

Definitions.

$$R - \frac{N_6 \cdot [N_1 \cdot N_4 \cdot N_5 - N_2 \cdot N_3 \cdot N_4 - N_3 \cdot N_5 \cdot (N_2 - N_4)]}{N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

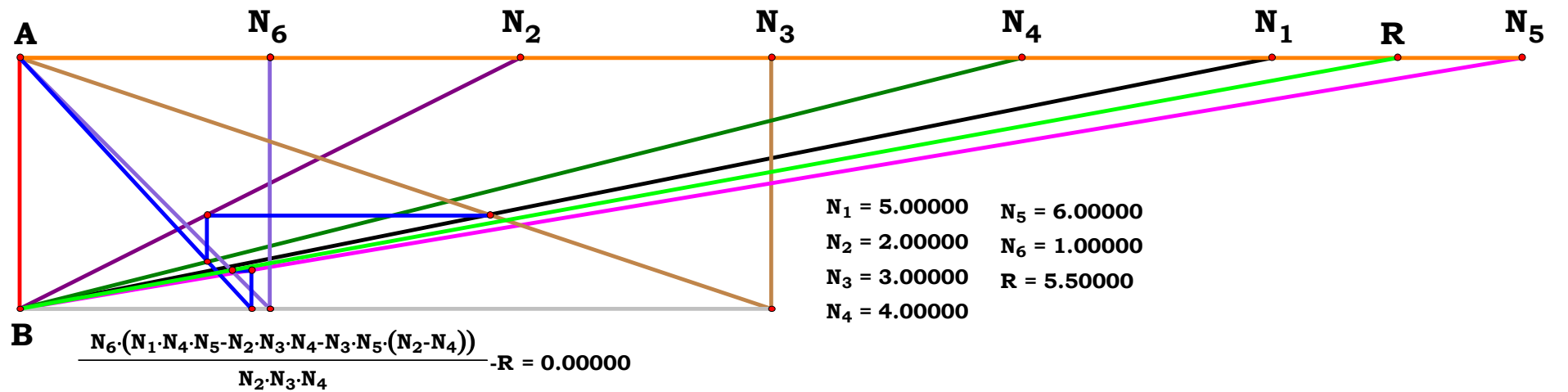
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)}{A \cdot E \cdot F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (U \cdot X \cdot Y \cdot l \cdot m - V \cdot W \cdot X \cdot k \cdot o - V \cdot W \cdot Y \cdot k \cdot n + W \cdot X \cdot Y \cdot k \cdot l)}{V \cdot W \cdot X \cdot k \cdot o \cdot p} = 0$$



$N_1 = 5.00000$ $N_5 = 6.00000$
 $N_2 = 2.00000$ $N_6 = 1.00000$
 $N_3 = 3.00000$ $R = 5.50000$
 $N_4 = 4.00000$

$$\frac{N_6 \cdot (N_1 \cdot N_4 \cdot N_5 - N_2 \cdot N_3 \cdot N_4 - N_3 \cdot N_5 \cdot (N_2 - N_4))}{N_2 \cdot N_3 \cdot N_4} - R = 0.00000$$



1CST5R12

Descriptions.

$$CE := \frac{N_3}{N_1 + N_3} \quad BE := N_2 \cdot CE$$

$$DE := \frac{BE}{N_4} \quad BG := \frac{BE}{AB - DE}$$

$$R := \frac{BG}{DE} \quad R = 3.18636$$

Definitions.

$$R - \frac{N_4^2 \cdot (N_1 + N_3)}{N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

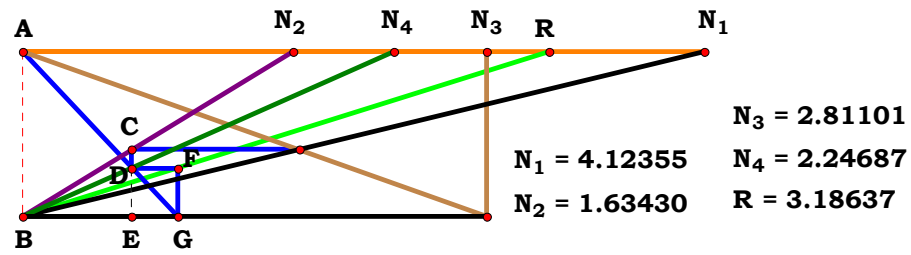
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot N_u \cdot (A + C)}{D \cdot (A \cdot B - A \cdot D + B \cdot C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

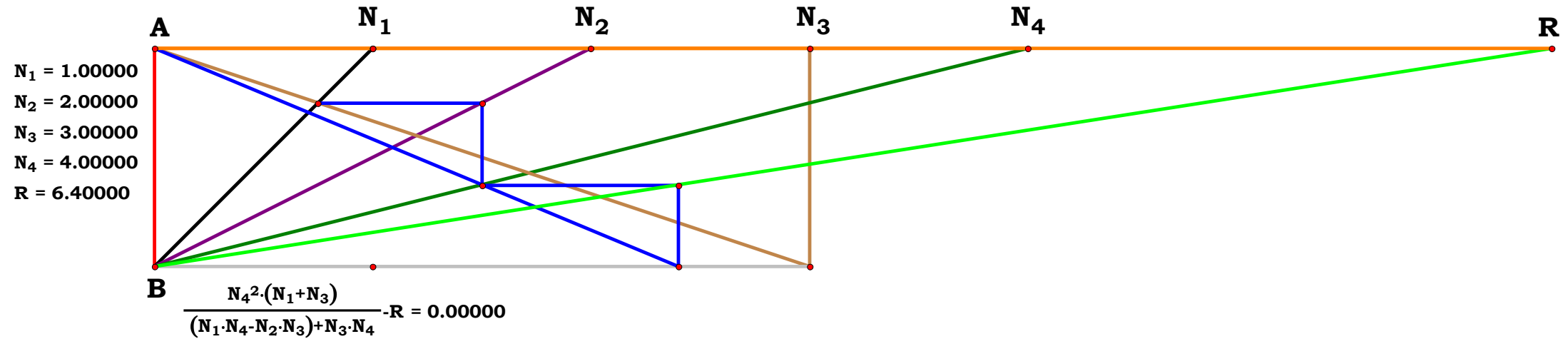
$$R - \frac{Z^2 \cdot n \cdot (W \cdot o + Y \cdot m)}{p \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + Y \cdot Z \cdot m \cdot n)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.12355$ $N_2 := 1.63430$ $N_3 := 2.81101$ $N_4 := 2.24687$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





1CST5R13

Descriptions.

$$CE := \frac{N_3}{N_1 + N_3} \quad BE := N_2 \cdot CE$$

$$BH := \frac{BE}{AB - CE} \quad DF := \frac{BH}{BH + N_4}$$

$$R := \frac{BH}{DF} \quad R = 2.643619$$

Definitions.

$$R - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

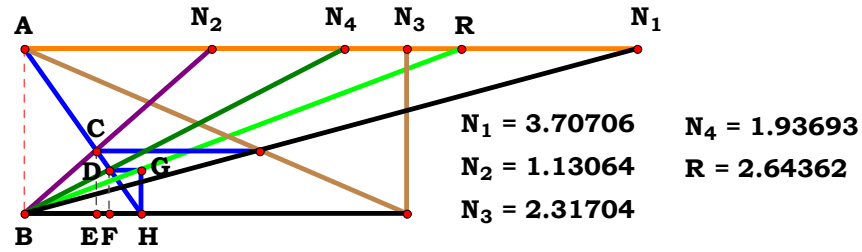
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A \cdot D + B \cdot C)}{B \cdot C \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

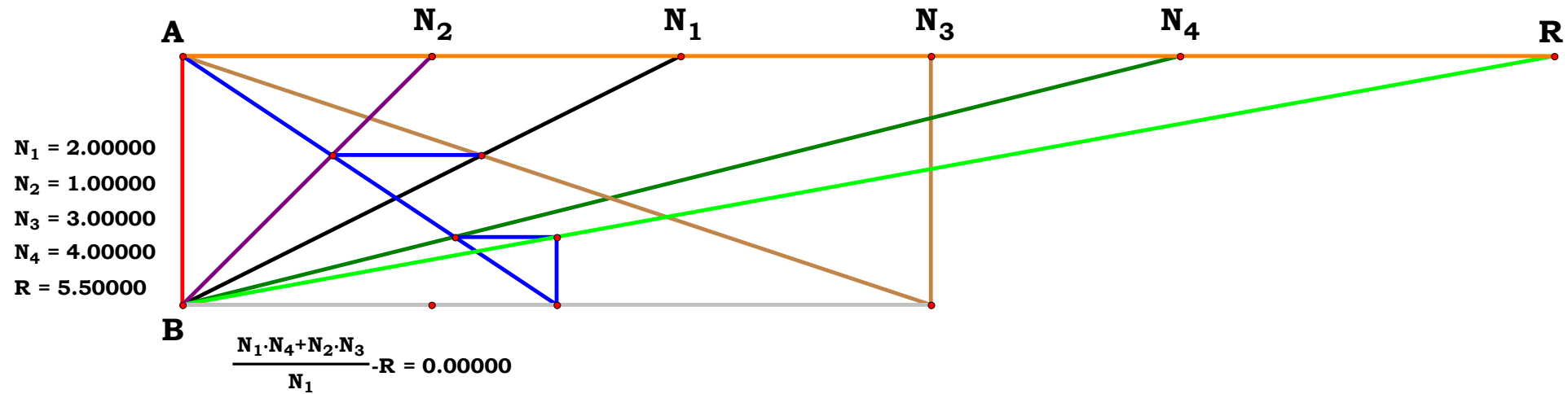
$$R - \frac{W \cdot Z \cdot n \cdot o + X \cdot Y \cdot m \cdot p}{W \cdot n \cdot o \cdot p} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.70706$ $N_2 := 1.13064$ $N_3 := 2.31704$ $N_4 := 1.93693$

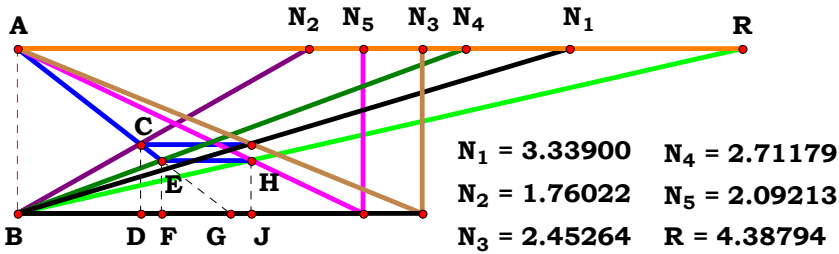
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





1CST5R14



Unit. $AB := 1$ Given. $N_1 := 3.33900$ $N_2 := 1.76022$ $N_3 := 2.45264$
 $N_4 := 2.71179$ $N_5 := 2.09213$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$CD := \frac{N_3}{N_1 + N_3}$ $BD := N_2 \cdot CD$

$BG := \frac{BD}{AB - CD}$ $EF := \frac{BG}{BG + N_4}$

$BJ := N_5 \cdot (AB - EF)$ $R := \frac{BJ}{EF}$

$R = 4.387937$

Definitions.

$R - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$

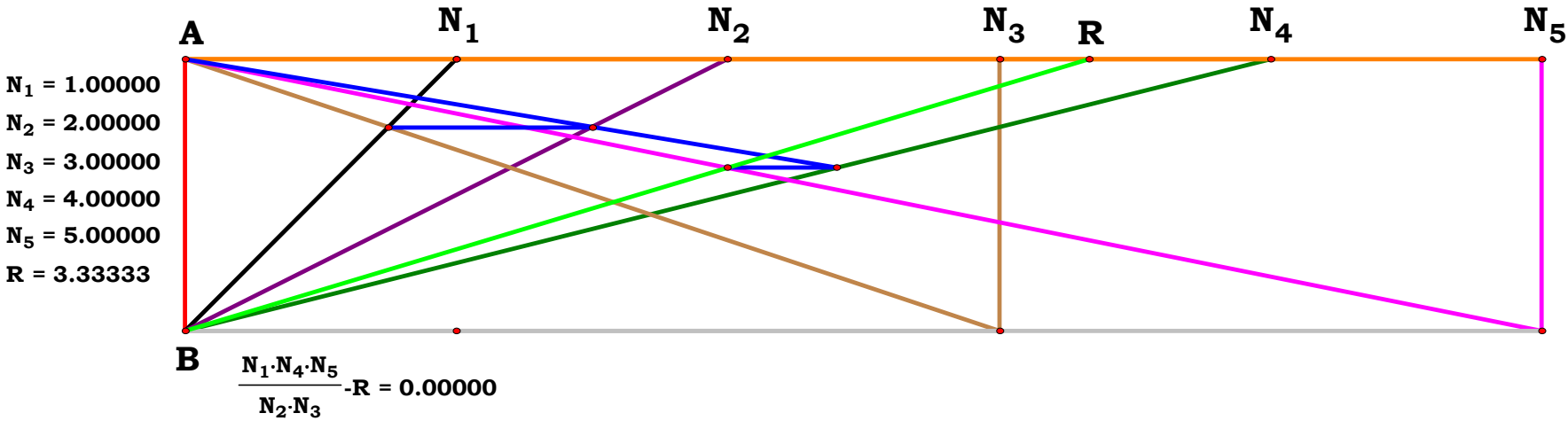
$N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$

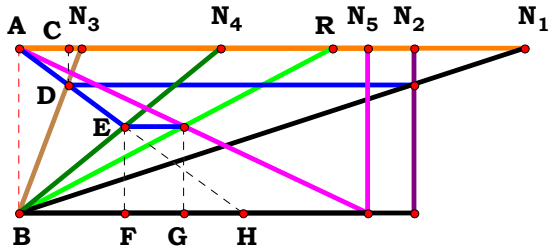
$R - \frac{B \cdot C \cdot N_u}{A \cdot D \cdot E} = 0$

$N_1 - \frac{V}{l} = 0$ $N_2 - \frac{W}{m} = 0$ $N_3 - \frac{X}{n} = 0$

$N_4 - \frac{Y}{o} = 0$ $N_5 - \frac{Z}{p} = 0$

$R - \frac{V \cdot Y \cdot Z \cdot m \cdot n}{W \cdot X \cdot l \cdot o \cdot p} = 0$





$N_1 = 3.05811$
 $N_2 = 2.38980$
 $N_3 = 0.37988$
 $N_4 = 1.22018$
 $N_5 = 2.11150$
 $R = 1.89667$

Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 2.38980$ $N_3 := .37988$

$N_4 := 1.22018$ $N_5 := 2.11150$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$CD := AB - \frac{N_2}{N_1} \quad AC := N_3 \cdot (AB - CD)$$

$$BH := \frac{AC}{CD} \quad EF := \frac{BH}{BH + N_4}$$

$$BG := N_5 \cdot (AB - EF) \quad R := \frac{BG}{EF}$$

$R = 1.89664$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

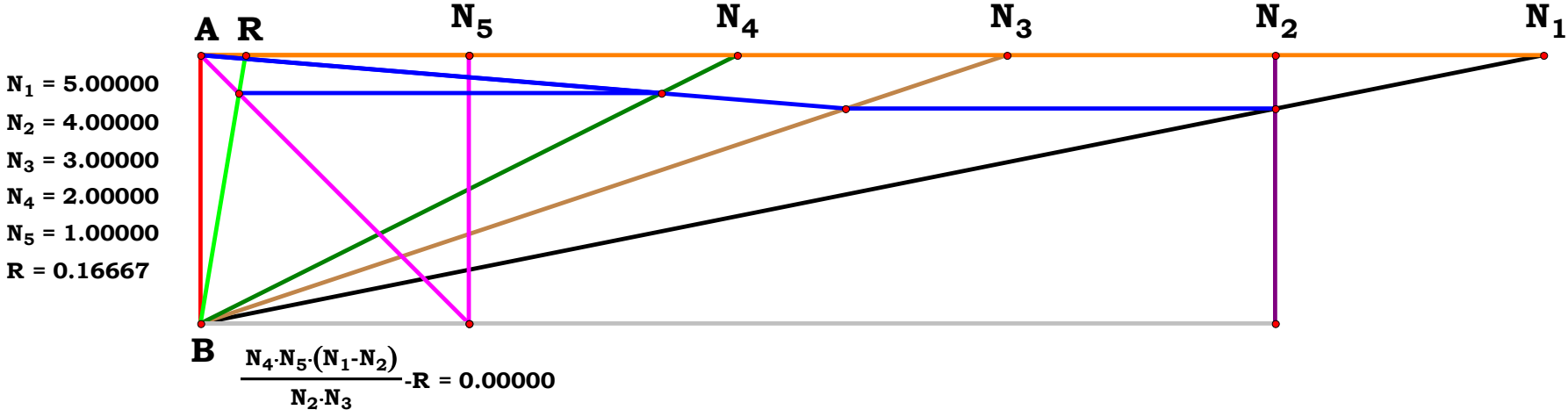
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{C \cdot N_u \cdot (B - A)}{A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0$$

$$N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot n \cdot (V \cdot m - W \cdot l)}{W \cdot X \cdot l \cdot o \cdot p} = 0$$





Descriptions.

$$\begin{aligned} GH &:= \frac{N_2}{N_1 + N_2} & BD &:= N_3 \cdot GH \\ BJ &:= \frac{BD}{AB - GH} & EF &:= \frac{BJ}{BJ + N_4} \end{aligned}$$

$$BM := N_5 \cdot (AB - EF)$$

$$BQ := \frac{BM \cdot GH}{EF}$$

$$OQ := \frac{BQ}{N_6}$$

$$R := \frac{N_7}{OQ}$$

$$R = 2.252116$$

Definitions.

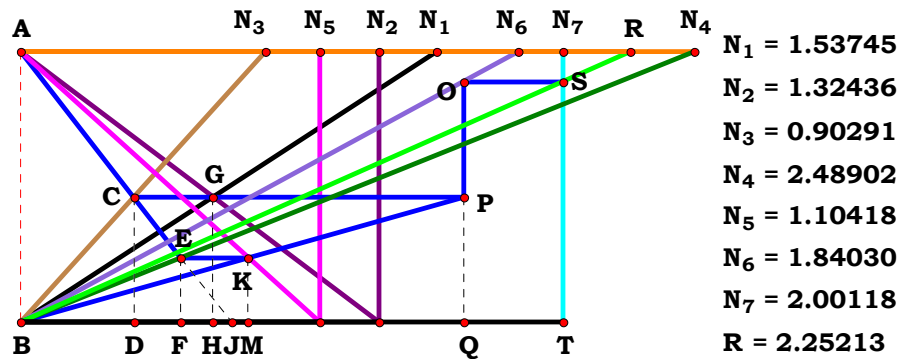
$$R - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2)}{N_1 \cdot N_4 \cdot N_5} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot E \cdot N_u \cdot (A + B)}{B \cdot C \cdot F \cdot G} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot n \cdot (T \cdot k + U \cdot j)}{T \cdot W \cdot X \cdot k \cdot l \cdot o \cdot p} = 0$$



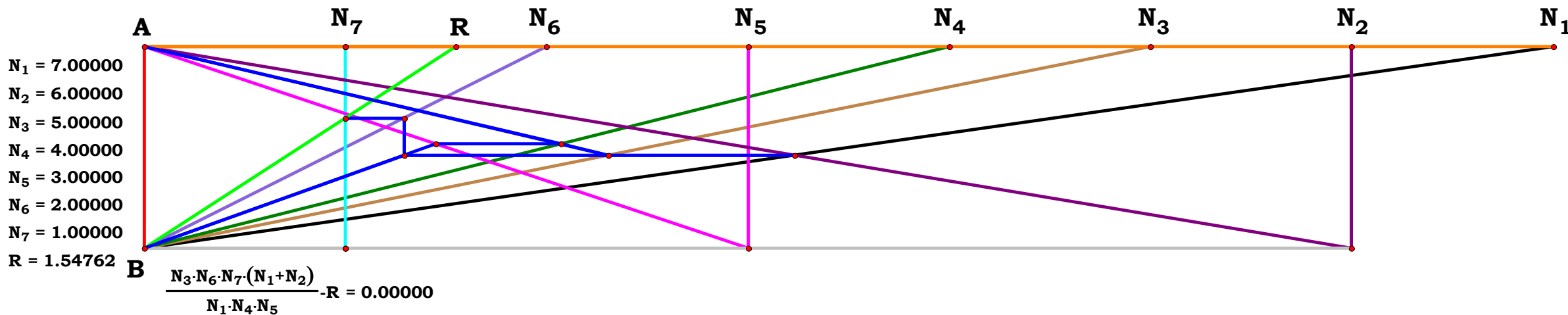
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.53745 \quad N_2 := 1.32436 \quad N_3 := .90291 \quad N_4 := 2.48902$$

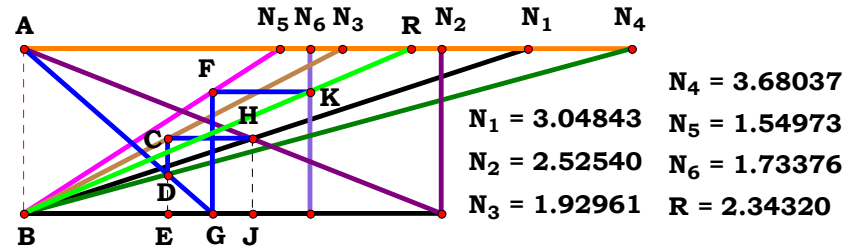
$$N_5 := 1.10418 \quad N_6 := 1.84030 \quad N_7 := 2.00118$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$





Unit. $AB := 1$ Given. $N_1 := 3.04843$ $N_2 := 2.52540$ $N_3 := 1.92961$
 $N_4 := 3.68037$ $N_5 := 1.54973$ $N_6 := 1.73376$
 $N_u := -3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$
 $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$
 $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$HJ := \frac{N_2}{N_1 + N_2} \quad BE := N_3 \cdot HJ$$

$$DE := \frac{BE}{N_4} \quad BG := \frac{BE}{AB - DE}$$

$$FG := \frac{BG}{N_5} \quad R := \frac{N_6}{FG}$$

$R = 2.343206$

Definitions.

$$R - \frac{N_5 \cdot N_6 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

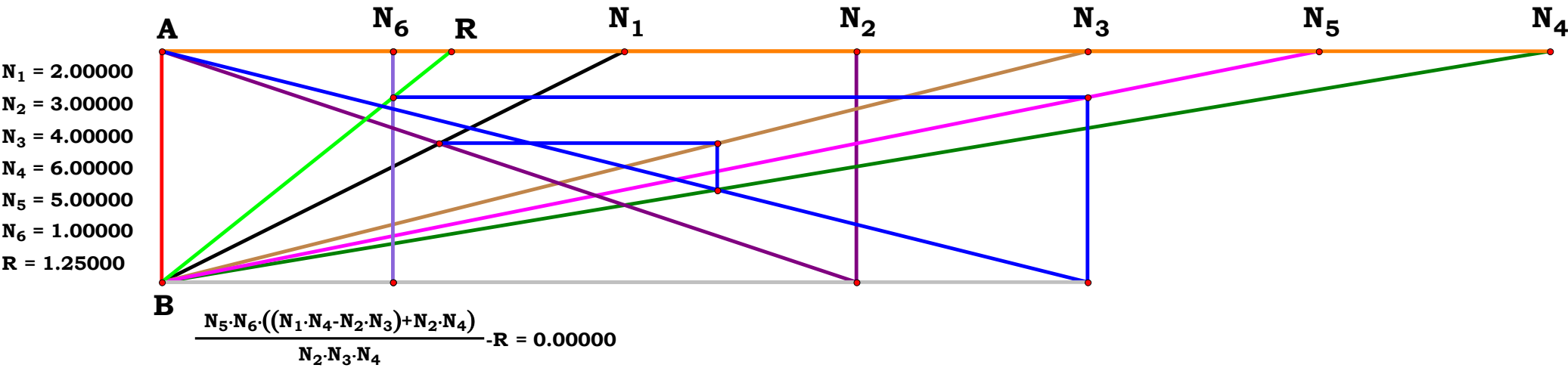
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{V \cdot W \cdot X \cdot k \cdot o \cdot p} = 0$$



1CST6R3

$$\mathbf{BF} := \frac{N_1 \cdot N_4}{N_1 + N_4} \quad \mathbf{CD} := \frac{N_3 - \mathbf{BF}}{N_3}$$

$$R := \frac{N_2}{1 - CD} \quad R = 3.566429$$

$$R - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

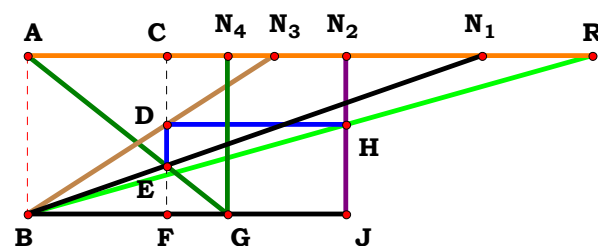
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{D})}{\mathbf{B} \cdot \mathbf{C}} = \mathbf{0}$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Y} \cdot (\mathbf{W} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{m})}{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o}} = 0$$

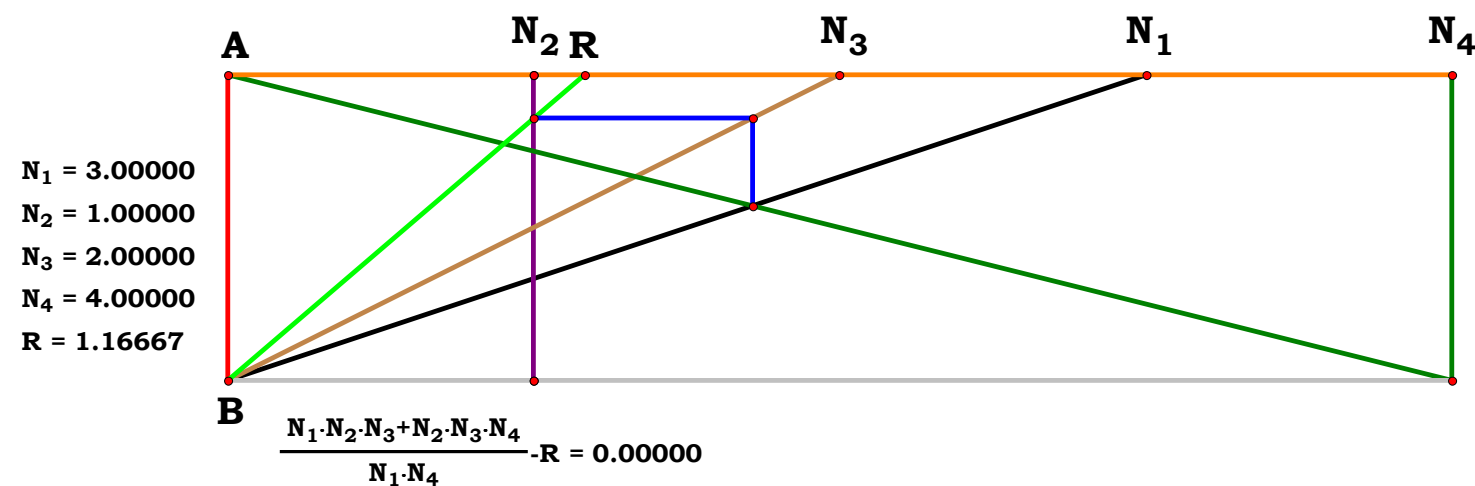


N₁ = 2.86869
N₂ = 2.01010
N₃ = 1.55556
N₄ = 1.26263
R = 3.56643

Unit. AB := 1 Given. $N_1 := 2.86869$ $N_2 := 2.01010$ $N_3 := 1.55556$ $N_4 := 1.26263$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$



1CST6R4

$$\mathbf{GH} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BE} := \mathbf{N}_3 \cdot \mathbf{GH}$$

$$\mathbf{DE} := \frac{\mathbf{N}_4 - \mathbf{BE}}{\mathbf{N}_4} \quad \mathbf{R} := \frac{\mathbf{BE}}{\mathbf{DE}}$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

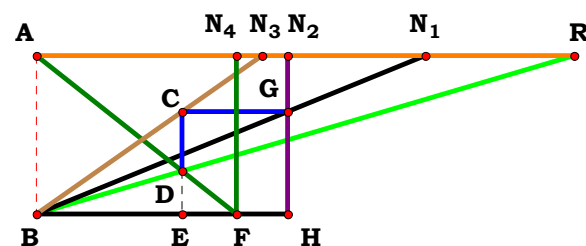
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u}{B \cdot C - A \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot m}{W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p} = 0$$

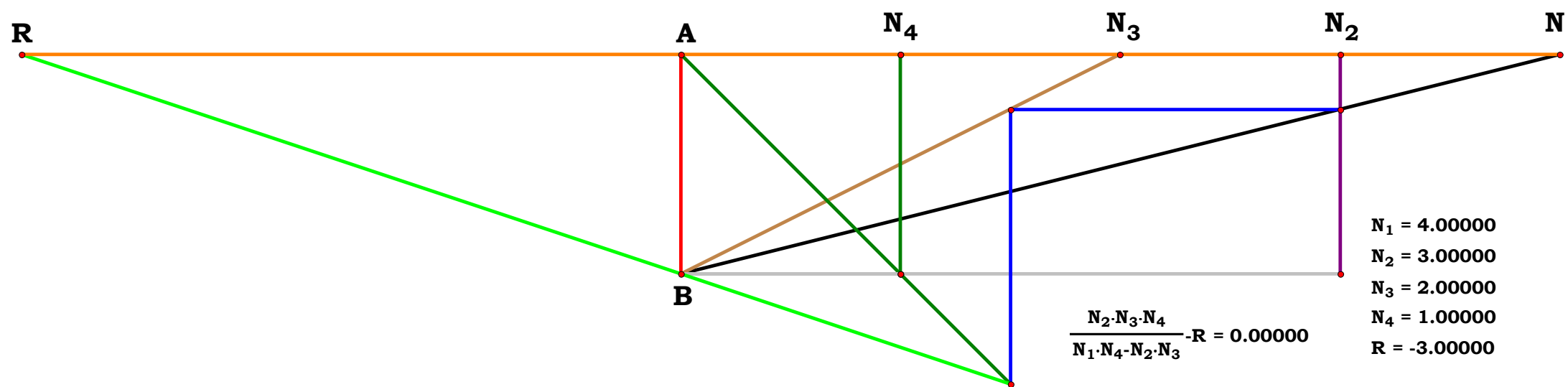


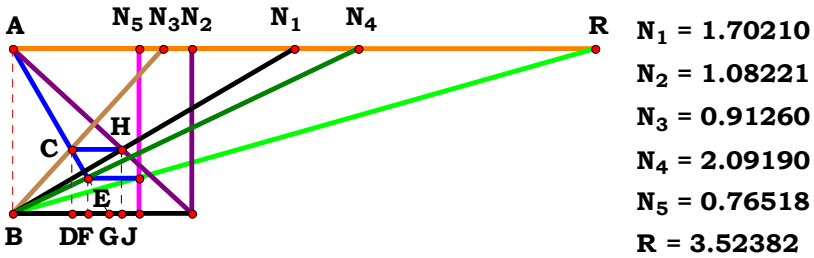
N₁ = 2.45455
N₂ = 1.58586
N₃ = 1.42424
N₄ = 1.26263
R = 3.39291

Unit. AB := 1 Given. $N_1 := 2.45455$ $N_2 := 1.58586$ $N_3 := 1.42424$ $N_4 := 1.26263$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := \mathbf{20} \quad \mathbf{X} := \mathbf{19} \quad \mathbf{Y} := \mathbf{18} \quad \mathbf{Z} := \mathbf{17} \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$





Unit. $AB := 1$ Given. $N_1 := 1.70210$ $N_2 := 1.08221$ $N_3 := .91260$
 $N_4 := 2.09190$ $N_5 := .76518$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$HJ := \frac{N_2}{N_1 + N_2} \quad BD := N_3 \cdot HJ$$

$$BG := \frac{BD}{AB - HJ} \quad EF := \frac{BG}{BG + N_4}$$

$$R := \frac{N_5}{EF} \quad R = 3.523836$$

Definitions.

$$R - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot N_3)}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

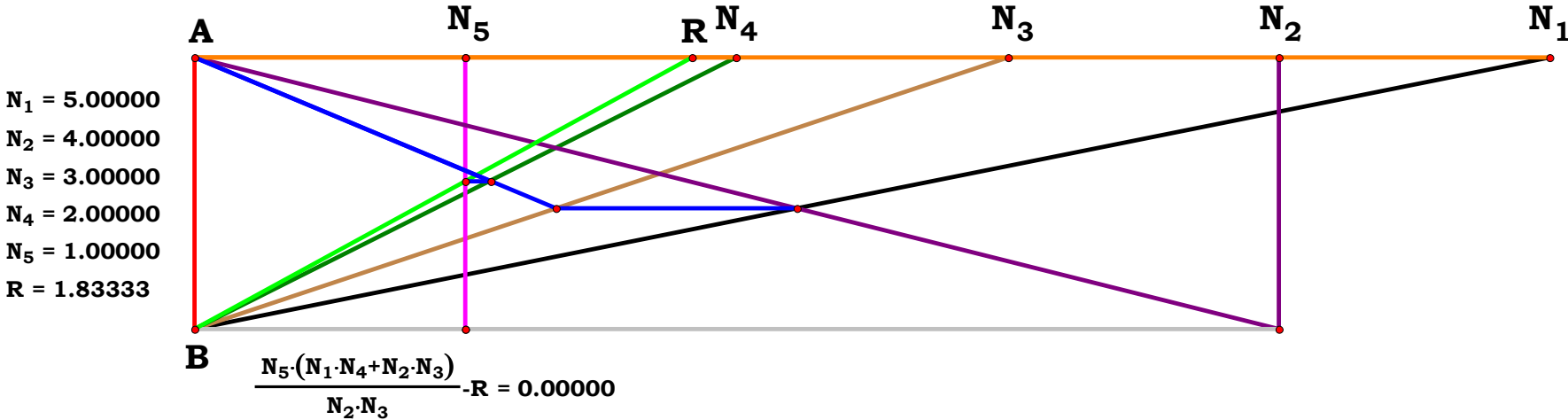
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

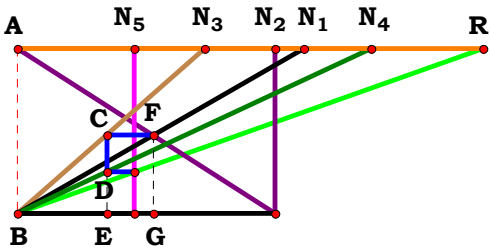
$$R - \frac{N_u \cdot (A \cdot D + B \cdot C)}{A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0$$

$$N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n + W \cdot X \cdot 1 \cdot o)}{W \cdot X \cdot 1 \cdot o \cdot p} = 0$$





$N_1 = 1.73116$
 $N_2 = 1.55682$
 $N_3 = 1.13537$
 $N_4 = 2.14033$
 $N_5 = 0.70706$
 $R = 2.81508$

Unit. $AB := 1$ Given. $N_1 := 1.73116$ $N_2 := 1.55682$ $N_3 := 1.13537$
 $N_4 := 2.14033$ $N_5 := .70706$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$FG := \frac{N_2}{N_1 + N_2} \quad BE := N_3 \cdot FG$$

$$DE := \frac{BE}{N_4} \quad R := \frac{N_5}{DE}$$

$$R = 2.815078$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

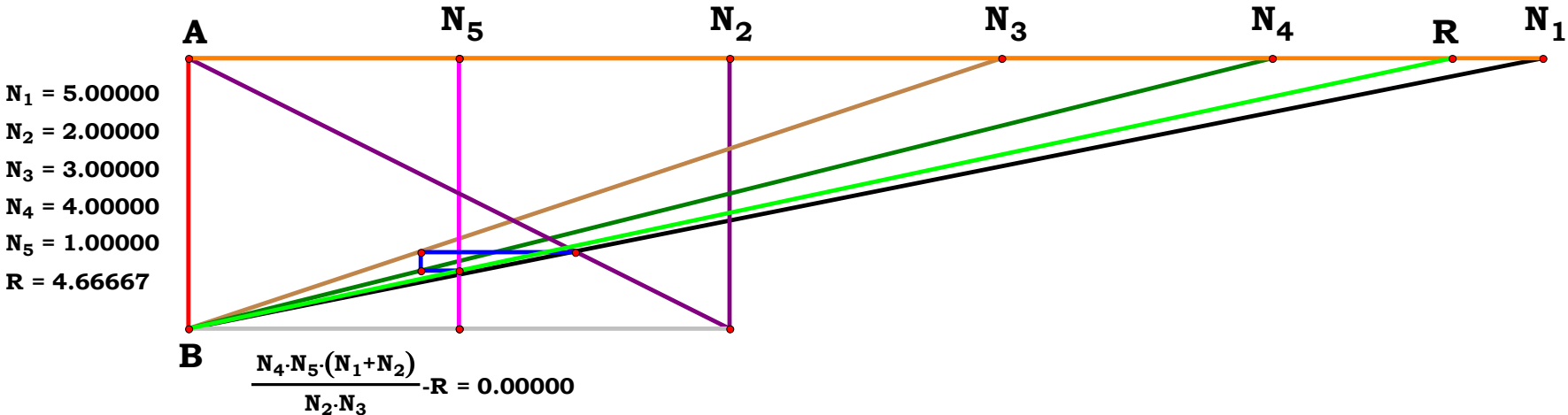
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{C \cdot N_u \cdot (A + B)}{A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0$$

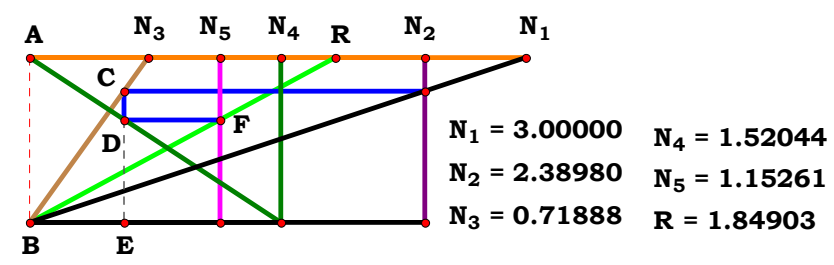
$$N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot n \cdot (V \cdot m + W \cdot l)}{W \cdot X \cdot l \cdot o \cdot p} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $N_5 = 1.00000$
 $R = 4.66667$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.3898$ $N_3 := .71888$

$N_4 := 1.52044$ $N_5 := 1.15261$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$CE := \frac{N_2}{N_1}$ $BE := CE \cdot N_3$

$DE := AB - \frac{BE}{N_4}$ $R := \frac{N_5}{DE}$

$R = 1.84903$

Definitions.

$R - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$

$N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$

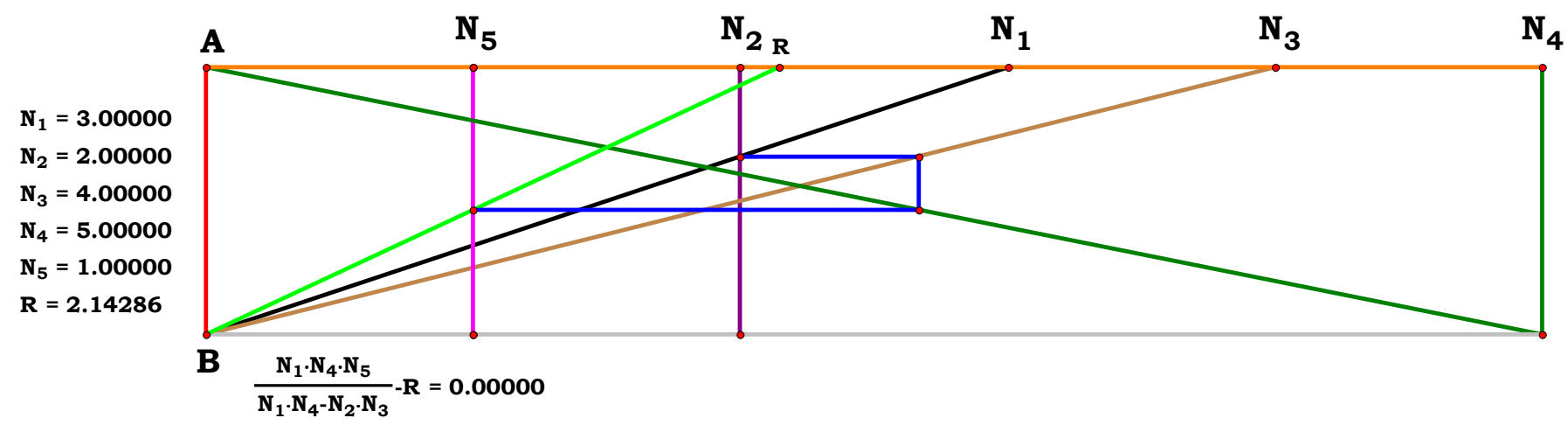
$R - \frac{B \cdot C \cdot N_u}{E \cdot (B \cdot C - A \cdot D)} = 0$

$N_1 - \frac{V}{1} = 0$ $N_2 - \frac{W}{m} = 0$

$N_3 - \frac{X}{n} = 0$ $N_4 - \frac{Y}{o} = 0$ $N_5 - \frac{Z}{p} = 0$

$R - \frac{V \cdot Y \cdot Z \cdot m \cdot n}{p \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot 1 \cdot o)} = 0$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$





Descriptions.

$$HJ := \frac{N_3}{N_2 + N_3} \quad BJ := \frac{N_2 \cdot N_3}{N_2 + N_3}$$

$$AC := \frac{(AB - HJ) \cdot N_1}{N_1 - BJ}$$

$$BG := N_4 \cdot (AB - AC)$$

$$BP := \frac{BG}{AC} \quad KO := \frac{BP}{BP + N_1}$$

$$BE := N_5 \cdot KO \quad R := \frac{BE}{AB - KO}$$

$$R = 0.545916$$

Definitions.

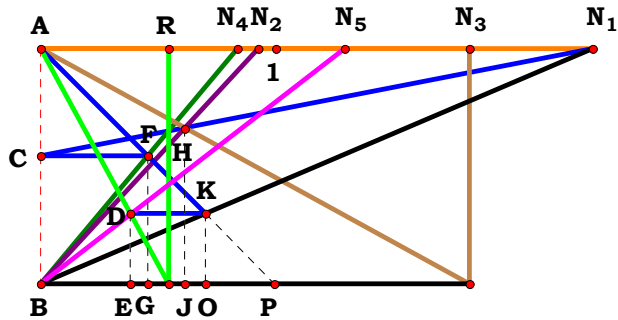
$$R - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (B - A)}{C \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot 1 \cdot (V \cdot m - W \cdot 1)}{V^2 \cdot W \cdot n \cdot o \cdot p} = 0$$



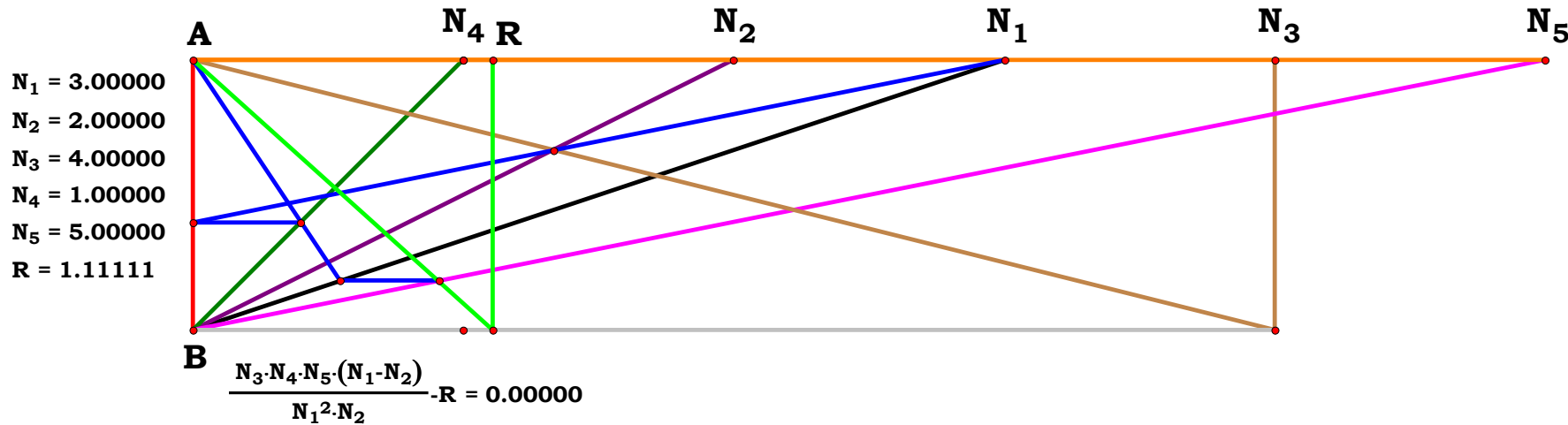
$$\begin{aligned} N_1 &= 2.34137 \\ N_2 &= 0.92535 \\ N_3 &= 1.82306 \\ N_4 &= 0.83275 \\ N_5 &= 1.28821 \\ R &= 0.54592 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.34137 \quad N_2 := .92535 \quad N_3 := 1.82306$$

$$N_4 := .83275 \quad N_5 := 1.28821$$

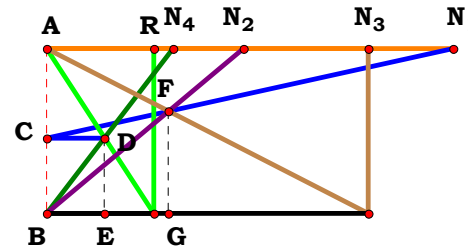
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 4.00000 \\ N_4 &= 1.00000 \\ N_5 &= 5.00000 \\ R &= 1.11111 \end{aligned}$$

$$\frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} - R = 0.00000$$



Unit. AB := 1 Given. $N_1 := 2.45760$ $N_2 := 1.18876$ $N_3 := 1.94898$ $N_4 := .76495$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

$$\mathbf{FG} := \frac{\mathbf{N}_3}{\mathbf{N}_2 + \mathbf{N}_3} \quad \mathbf{BG} := \frac{\mathbf{N}_2 \cdot \mathbf{N}_3}{\mathbf{N}_2 + \mathbf{N}_3}$$

$$\mathbf{AC} := \frac{\mathbf{N}_1 \cdot (\mathbf{AB} - \mathbf{FG})}{\mathbf{N}_1 - \mathbf{BG}} \quad \mathbf{DE} := \mathbf{AB} - \mathbf{AC}$$

$$\mathbf{BE} := \mathbf{N}_4 \cdot \mathbf{DE} \quad \mathbf{R} := \frac{\mathbf{BE}}{\mathbf{AC}}$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

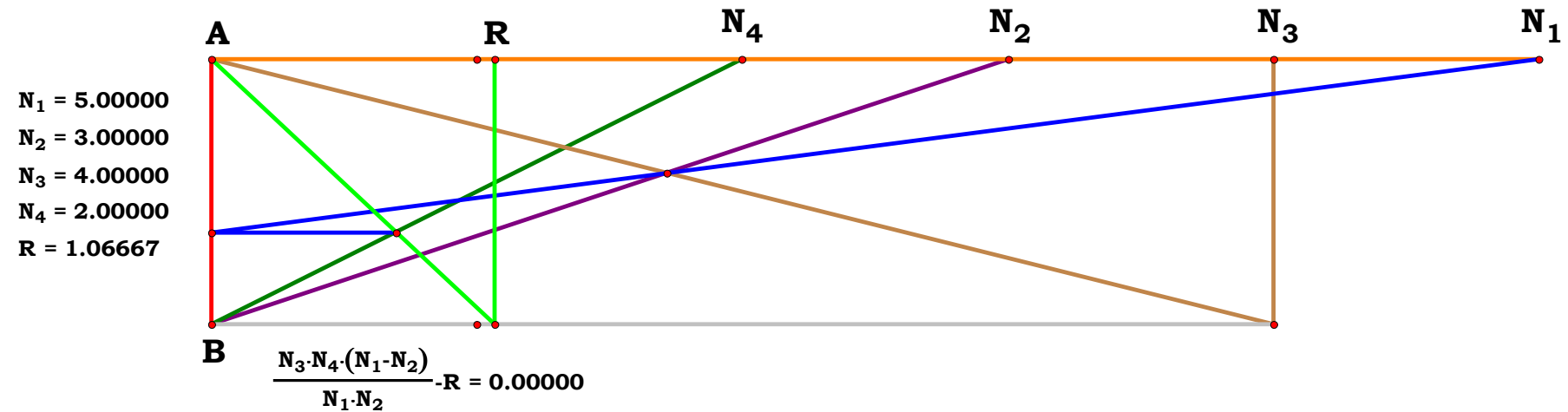
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{B} - \mathbf{A})}{\mathbf{C} \cdot \mathbf{D}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

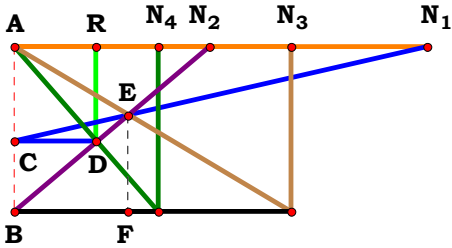
$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})}{\mathbf{W} \cdot \mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p}} = 0$$





1CST7R2



$N_1 = 2.49634$
 $N_2 = 1.17907$
 $N_3 = 1.67778$
 $N_4 = 0.87149$
 $R = 0.49775$

Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 1.17907$ $N_3 := 1.67778$ $N_4 := .87149$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$EF := \frac{N_3}{N_2 + N_3}$ $BF := N_2 \cdot EF$

$AC := \frac{N_1 \cdot (AB - EF)}{N_1 - BF}$ $R := N_4 \cdot AC$

$R = 0.497746$

Definitions.

$R - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$

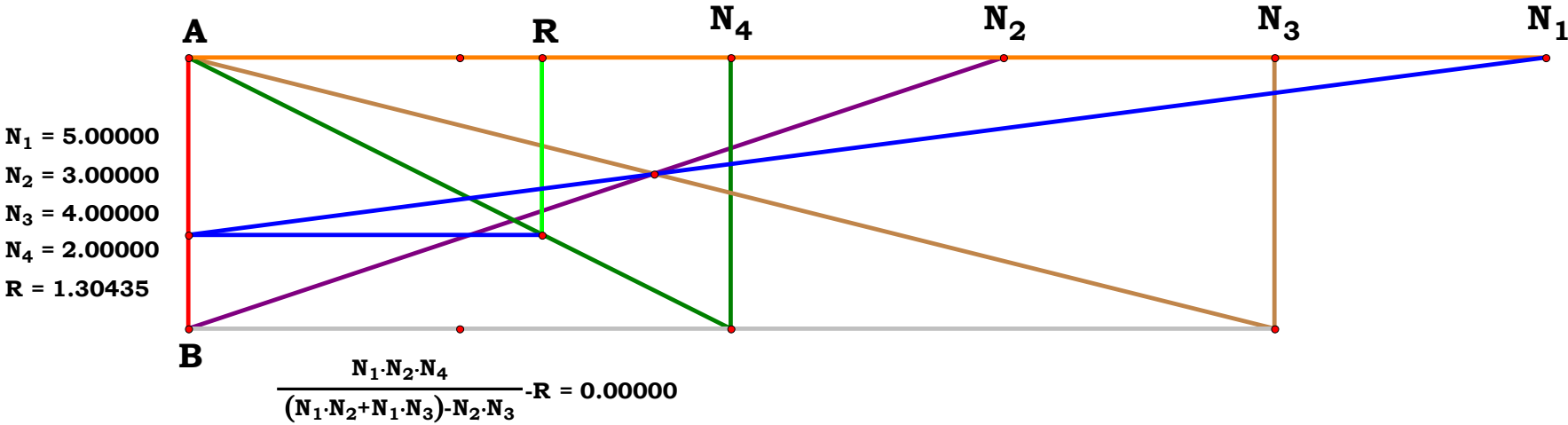
$N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$

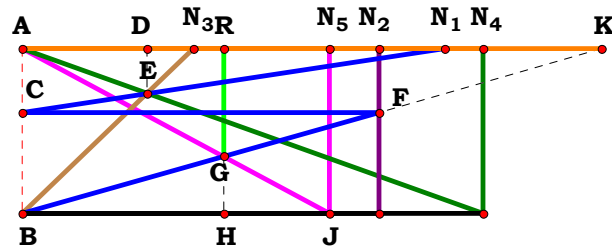
$R - \frac{C \cdot N_u}{D \cdot (B - A + C)} = 0$

$N_1 - \frac{W}{m} = 0$ $N_2 - \frac{X}{n} = 0$

$N_3 - \frac{Y}{o} = 0$ $N_4 - \frac{Z}{p} = 0$

$R - \frac{W \cdot X \cdot Z \cdot o}{p \cdot (W \cdot X \cdot o + W \cdot Y \cdot n - X \cdot Y \cdot m)} = 0$





$N_1 = 2.55445$
 $N_2 = 2.15734$
 $N_3 = 1.03851$
 $N_4 = 2.78928$
 $N_5 = 1.85967$
 $R = 1.21571$

Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := 2.15734$ $N_3 := 1.03851$

$N_4 := 2.78928$ $N_5 := 1.85967$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_3 \cdot N_4}{N_3 + N_4} \quad DE := \frac{AD}{N_4}$$

$$AC := \frac{DE \cdot N_1}{N_1 - AD} \quad AK := \frac{N_2}{AB - AC}$$

$$R := \frac{AK \cdot N_5}{AK + N_5} \quad R = 1.215712$$

Definitions.

$$R - \frac{N_2 \cdot N_5 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4 + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

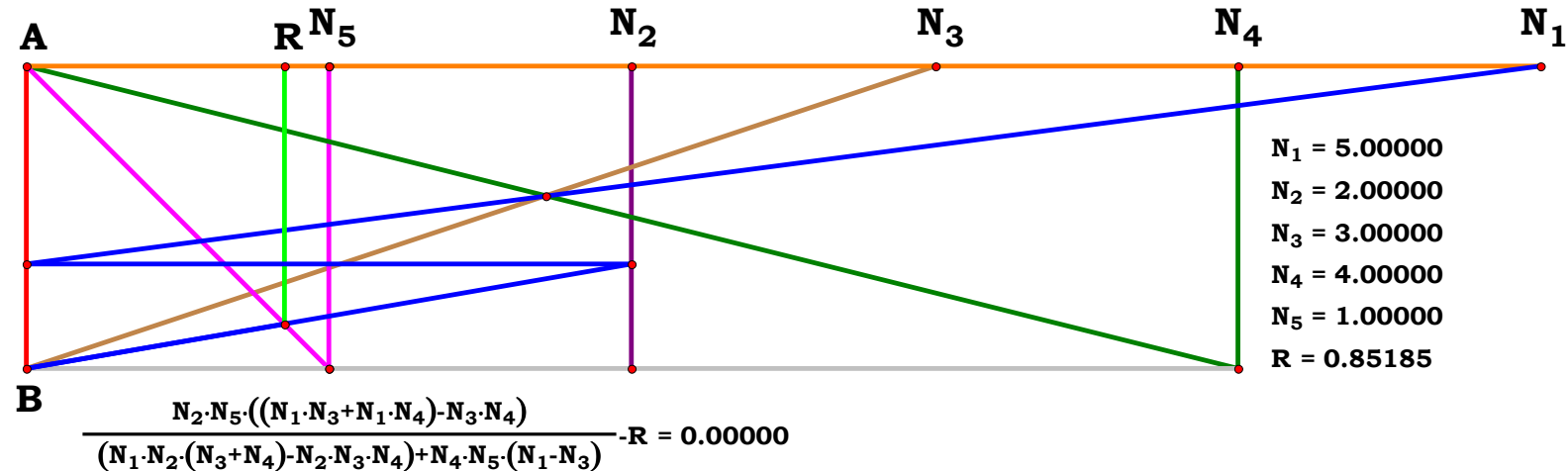
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C - A + D)}{B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

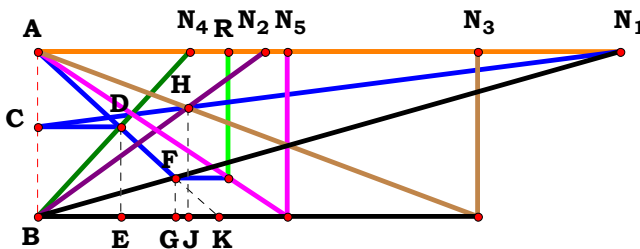
$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Z \cdot (V \cdot X \cdot o + V \cdot Y \cdot n - X \cdot Y \cdot l)}{V \cdot W \cdot X \cdot o \cdot p + V \cdot W \cdot Y \cdot n \cdot p + V \cdot Y \cdot Z \cdot m \cdot n - W \cdot X \cdot Y \cdot l \cdot p - X \cdot Y \cdot Z \cdot l \cdot m} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $N_5 = 1.00000$
 $R = 0.85185$

$$\frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} - R = 0.00000$$



$N_1 = 3.52303$
 $N_2 = 1.37279$
 $N_3 = 2.66573$
 $N_4 = 0.91992$
 $N_5 = 1.51098$
 $R = 1.15389$

Unit. $AB := 1$ Given. $N_1 := 3.52303$ $N_2 := 1.37279$ $N_3 := 2.66573$
 $N_4 := .91992$ $N_5 := 1.51098$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$HJ := \frac{N_3}{N_2 + N_3} \quad BJ := \frac{N_2 \cdot N_3}{N_2 + N_3}$$

$$AC := \frac{N_1 \cdot (AB - HJ)}{N_1 - BJ} \quad BE := N_4 \cdot (AB - AC)$$

$$BK := \frac{BE}{AC} \quad FG := \frac{BK}{BK + N_1}$$

$$R := N_5 \cdot (AB - FG) \quad R = 1.153888$$

Definitions.

$$R - \frac{N_1^2 \cdot N_2 \cdot N_5}{N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4 - N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

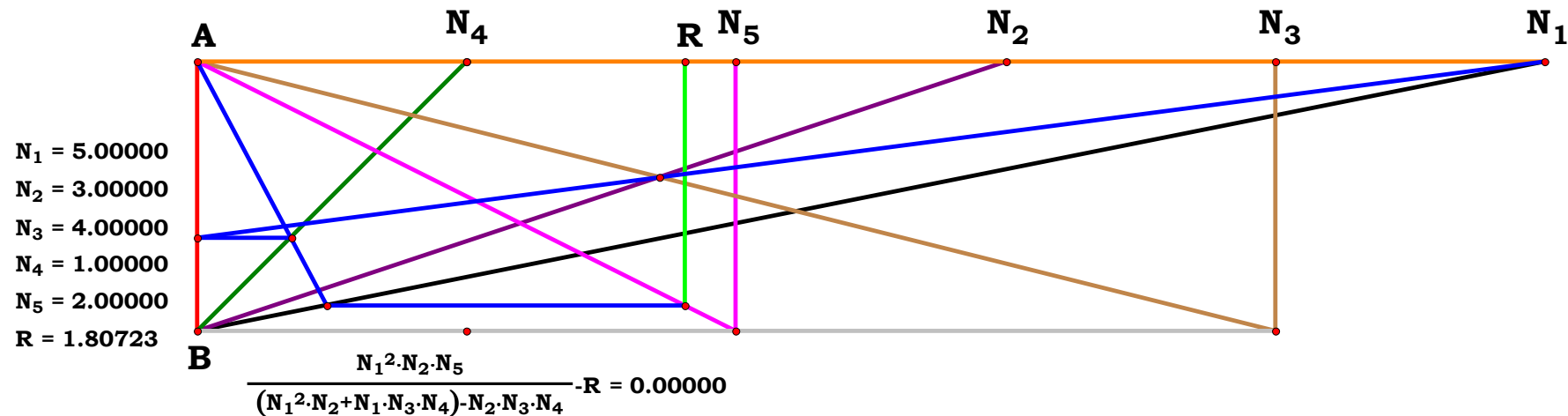
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{C \cdot D \cdot N_u}{E \cdot (B \cdot A - A^2 + C \cdot D)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

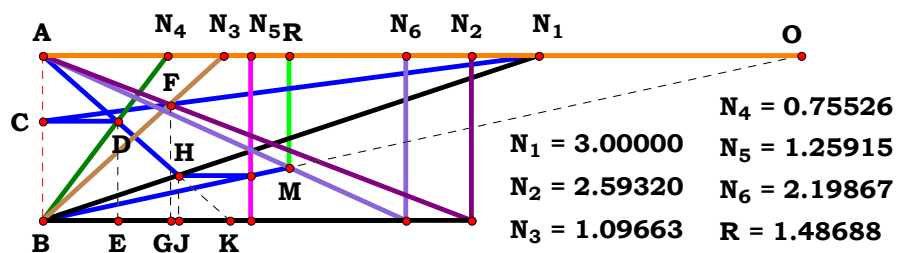
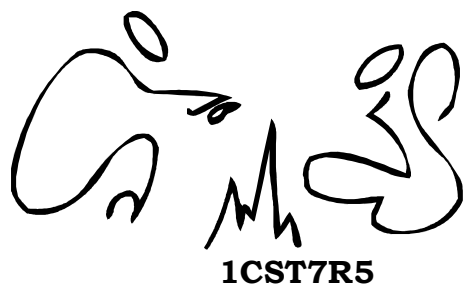
$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V^2 \cdot W \cdot Z \cdot n \cdot o}{p \cdot (W \cdot n \cdot o \cdot V^2 + X \cdot Y \cdot m \cdot V \cdot l - W \cdot X \cdot Y \cdot l^2)} = 0$$



$N_1 = 5.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 1.00000$
 $N_5 = 2.00000$
 $R = 1.80723$

$$\frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.5932$ $N_3 := 1.09663$
 $N_4 := .75526$ $N_5 := 1.25915$ $N_6 := 2.19867$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$FG := \frac{N_2}{N_2 + N_3} \quad BG := \frac{N_2 \cdot N_3}{N_2 + N_3}$$

$$AC := \frac{N_1 \cdot (AB - FG)}{N_1 - BG} \quad BE := N_4 \cdot (AB - AC)$$

$$BK := \frac{BE}{AC} \quad HJ := \frac{BK}{BK + N_1}$$

$$AO := \frac{N_5}{HJ} \quad R := \frac{N_6 \cdot AO}{N_6 + AO} \quad R = 1.486876$$

Definitions.

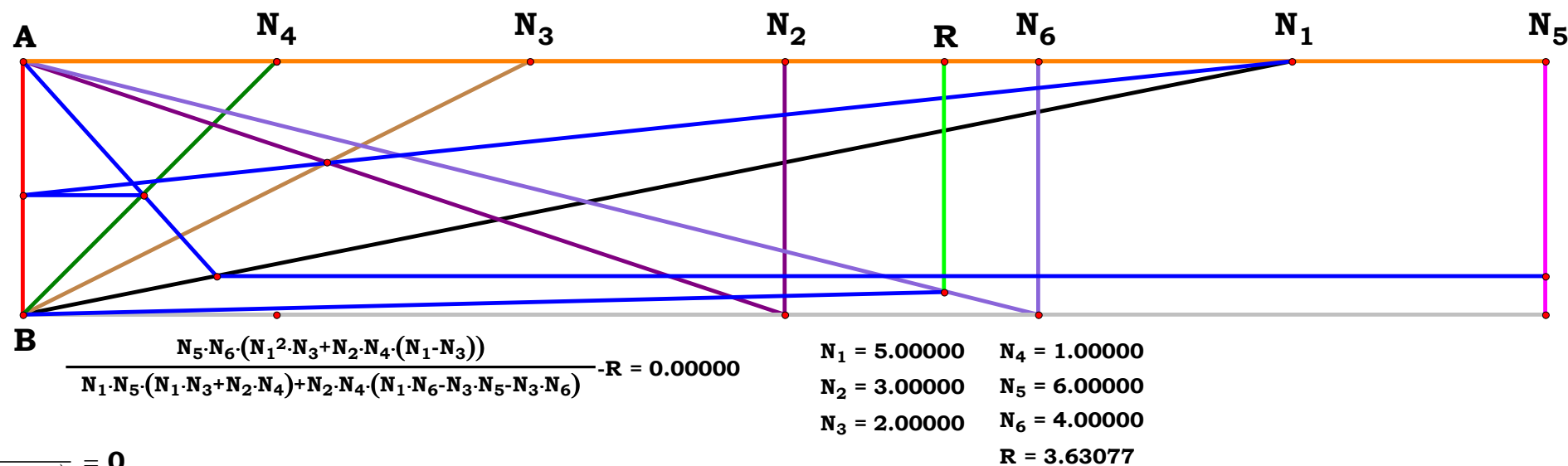
$$R - \frac{N_5 \cdot N_6 \cdot [N_1^2 \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3)]}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0$$

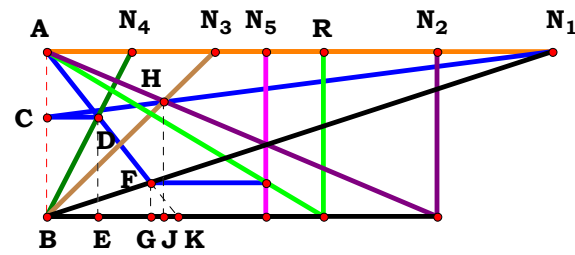
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot l \cdot n \cdot U^2 + V \cdot X \cdot m \cdot U \cdot k - V \cdot W \cdot X \cdot k^2)}{W \cdot (U^2 \cdot Y \cdot l \cdot n \cdot p - V \cdot X \cdot Z \cdot k^2 \cdot o - V \cdot X \cdot Y \cdot k^2 \cdot p) + U \cdot V \cdot X \cdot k \cdot m \cdot (Y \cdot p + Z \cdot o)} = 0$$





$N_1 = 3.05811$
 $N_2 = 2.36074$
 $N_3 = 1.01914$
 $N_4 = 0.51312$
 $N_5 = 1.32695$
 $R = 1.67082$

Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 2.36074$ $N_3 := 1.01914$
 $N_4 := .51312$ $N_5 := 1.32695$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$HJ := \frac{N_2}{N_2 + N_3} \quad BJ := HJ \cdot N_3$$

$$AC := \frac{N_1 \cdot (AB - HJ)}{N_1 - BJ} \quad BE := N_4 \cdot (AB - AC)$$

$$BK := \frac{BE}{AC} \quad FG := \frac{BK}{N_1 + BK}$$

$$R := \frac{N_5}{(AB - FG)} \quad R = 1.670819$$

Definitions.

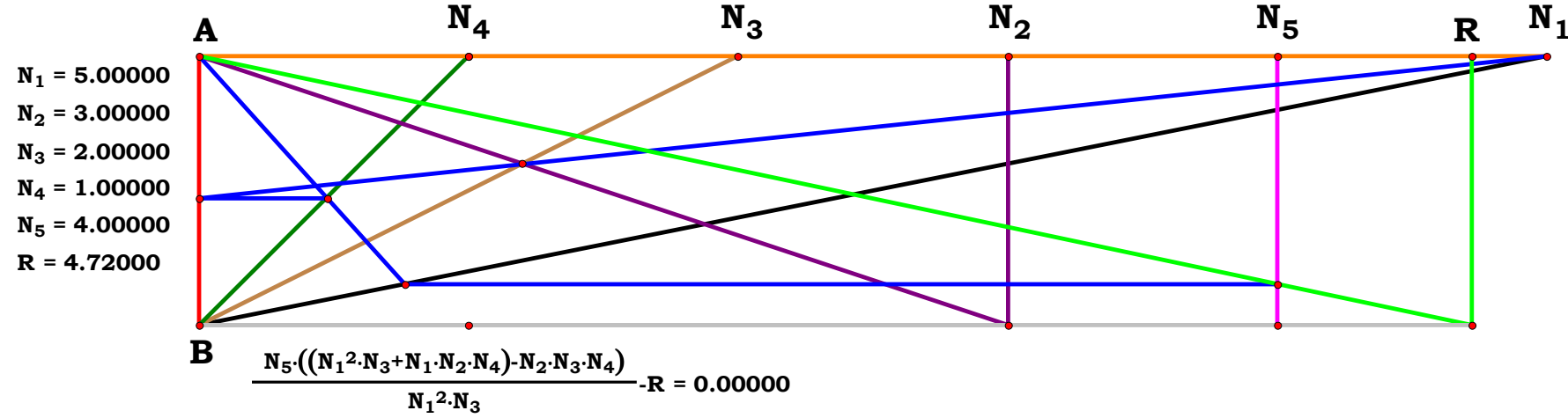
$$R - \frac{N_5 \cdot (N_1^2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4)}{N_1^2 \cdot N_3} = 0$$

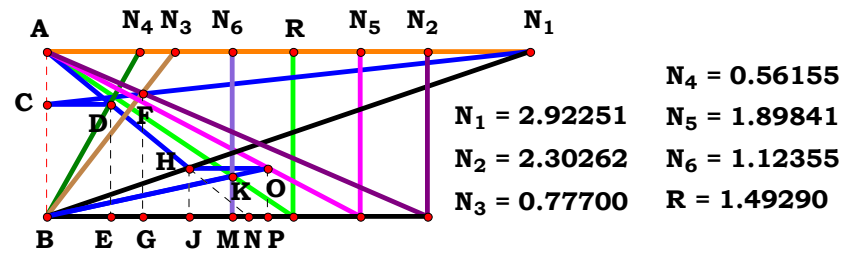
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{B \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (X \cdot m \cdot o \cdot V^2 + W \cdot Y \cdot n \cdot V \cdot l - W \cdot X \cdot Y \cdot l^2)}{V^2 \cdot X \cdot m \cdot o \cdot p} = 0$$





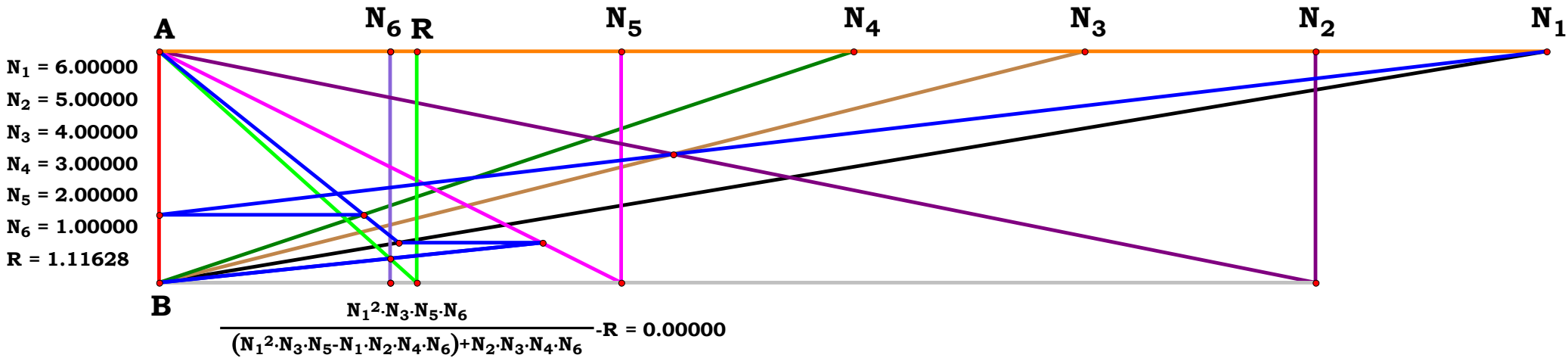
Descriptions.

$$\begin{aligned}
 FG &:= \frac{N_2}{N_2 + N_3} & BG &:= FG \cdot N_3 \\
 AC &:= \frac{N_1 \cdot (AB - FG)}{N_1 - BG} & BE &:= N_4 \cdot (AB - AC) \\
 BN &:= \frac{BE}{AC} & HJ &:= \frac{BN}{BN + N_1} \\
 BP &:= N_5 \cdot (AB - HJ) & KM &:= \frac{N_6 \cdot HJ}{BP} \\
 R &:= \frac{N_6}{AB - KM} & R &= 1.492904
 \end{aligned}$$

Definitions.

$$\begin{aligned}
 R - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6 + N_2 \cdot N_3 \cdot N_4 \cdot N_6} &= 0 \\
 N_1 - \frac{N_u}{A} = 0 & \quad N_2 - \frac{N_u}{B} = 0 & \quad N_3 - \frac{N_u}{C} = 0 & \quad N_4 - \frac{N_u}{D} = 0 & \quad N_5 - \frac{N_u}{E} = 0 & \quad N_6 - \frac{N_u}{F} = 0 \\
 R - \frac{B \cdot D \cdot N_u}{E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F} &= 0 \\
 N_1 - \frac{U}{k} = 0 & \quad N_2 - \frac{V}{l} = 0 & \quad N_3 - \frac{W}{m} = 0 & \quad N_4 - \frac{X}{n} = 0 & \quad N_5 - \frac{Y}{o} = 0 & \quad N_6 - \frac{Z}{p} = 0 \\
 R - \frac{U^2 \cdot W \cdot Y \cdot Z \cdot l \cdot n}{W \cdot Y \cdot l \cdot n \cdot p \cdot U^2 - V \cdot X \cdot Z \cdot m \cdot o \cdot U \cdot k + V \cdot W \cdot X \cdot Z \cdot o \cdot k^2} &= 0
 \end{aligned}$$

Unit. $AB := 1$ Given. $N_1 := 2.92251$ $N_2 := 2.30262$ $N_3 := .77700$
 $N_4 := .56155$ $N_5 := 1.89841$ $N_6 := 1.12355$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$
 $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$
 $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$





1CST7R8

Descriptions.

$$DE := \frac{N_3}{N_3 + N_4} \quad AD := N_4 \cdot DE$$

$$AC := \frac{DE \cdot N_1}{N_1 - AD} \quad R := \frac{N_2}{AC}$$

$$R = 2.643245$$

Definitions.

$$R - \frac{N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

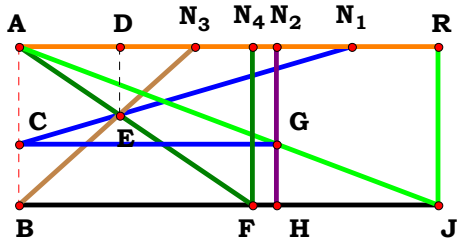
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (C - A + D)}{B \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}{W \cdot Y \cdot n \cdot p} = 0$$

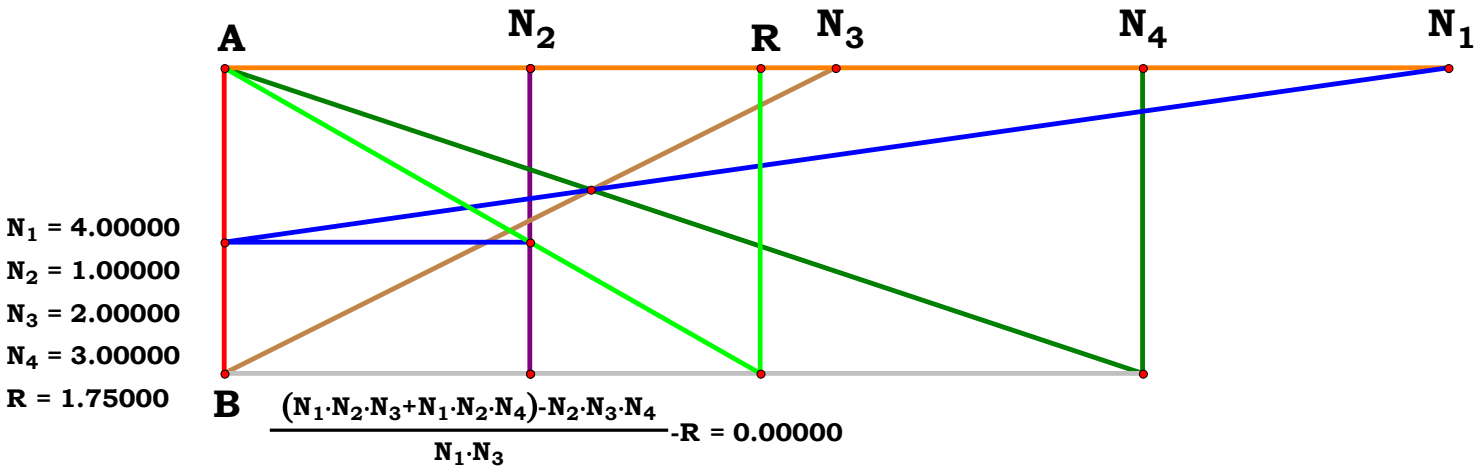


$$\begin{aligned} N_1 &= 2.10101 \\ N_2 &= 1.62626 \\ N_3 &= 1.11111 \\ N_4 &= 1.47475 \\ R &= 2.64325 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.10101 \quad N_2 := 1.62626 \quad N_3 := 1.11111 \quad N_4 := 1.47475$$

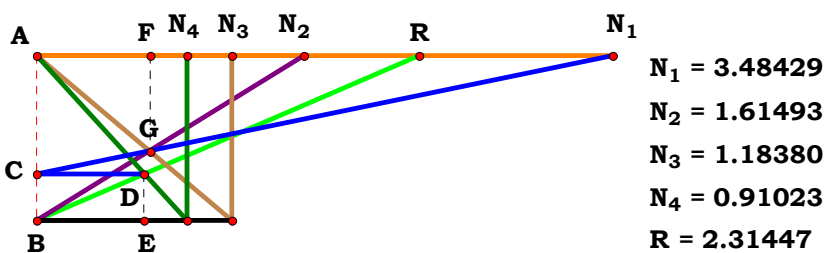
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 1.00000 \\ N_3 &= 2.00000 \\ N_4 &= 3.00000 \\ R &= 1.75000 \end{aligned}$$

$$\frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3.48429$ $N_2 := 1.61493$ $N_3 := 1.18380$ $N_4 := .91023$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AF := \frac{N_2 \cdot N_3}{N_2 + N_3} \quad FG := \frac{AF}{N_3}$$

$$AC := \frac{FG \cdot N_1}{N_1 - AF} \quad DE := AB - AC$$

$$BE := N_4 \cdot AC \quad R := \frac{BE}{DE} \quad R = 2.31445$$

Definitions.

$$R - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

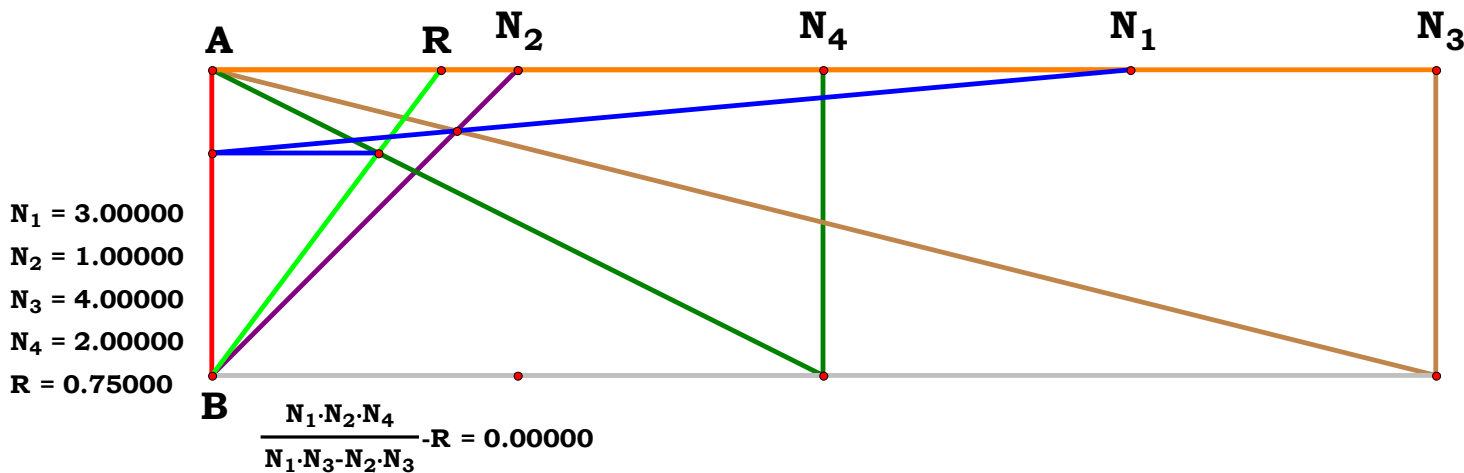
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

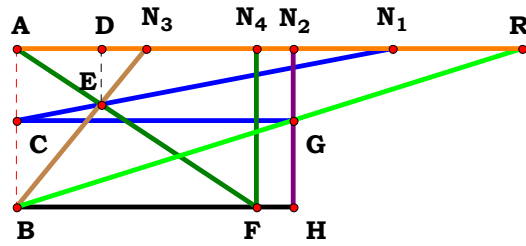
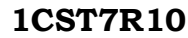
$$R - \frac{C \cdot N_u}{D \cdot (B - A)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o}{Y \cdot p \cdot (W \cdot n - X \cdot m)} = 0$$





Unit. AB := 1 **Given.** $N_1 := 2.37374$ $N_2 := 1.74747$ $N_3 := .81818$ $N_4 := 1.51515$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{DE} := \frac{\mathbf{N}_3}{\mathbf{N}_3 + \mathbf{N}_4} \quad \mathbf{AD} := \mathbf{N}_4 \cdot \mathbf{DE}$$

$$\mathbf{AC} := \frac{\mathbf{DE} \cdot \mathbf{N}_1}{\mathbf{N}_1 - \mathbf{AD}} \quad \mathbf{R} := \frac{\mathbf{N}_2}{1 - \mathbf{AC}}$$

Definitions.

$$R - \frac{N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

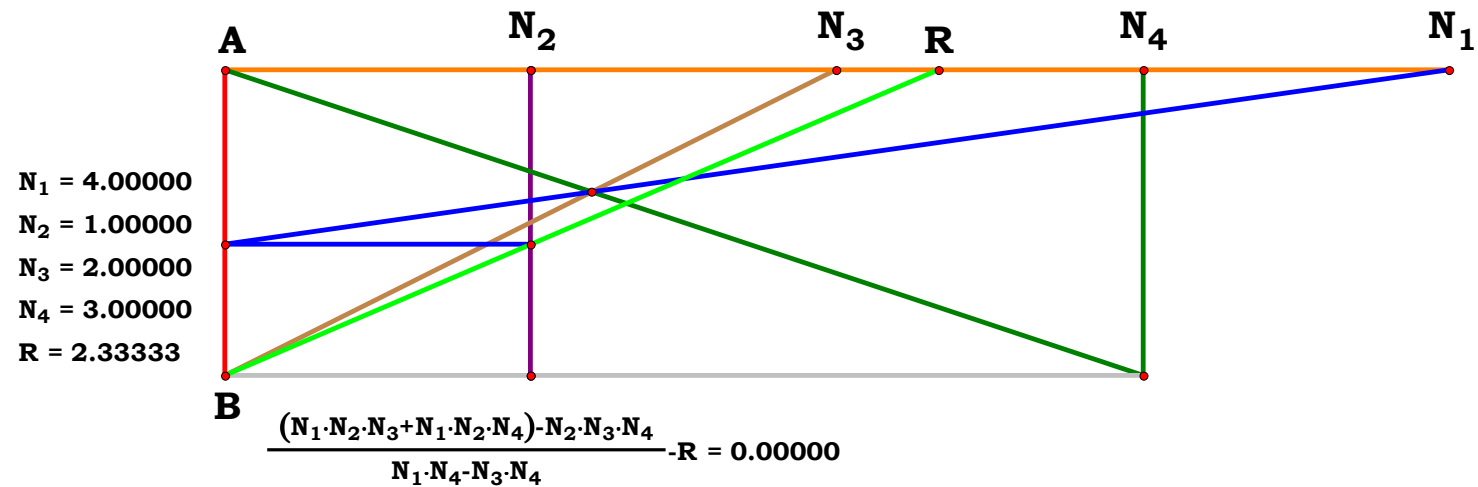
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

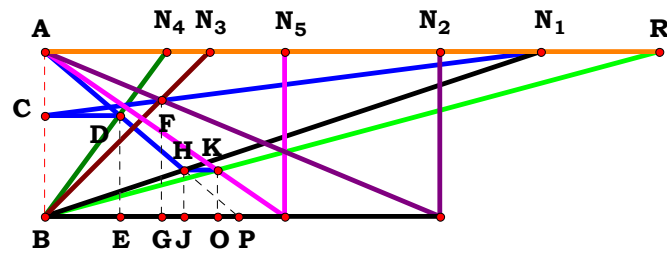
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D})}{\mathbf{B} \cdot (\mathbf{C} - \mathbf{A})} = \mathbf{0}$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m})}{\mathbf{Z} \cdot \mathbf{n} \cdot (\mathbf{W} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{m})} = 0$$





$N_1 = 3.00000$
 $N_2 = 2.38980$
 $N_3 = 0.99977$
 $N_4 = 0.73589$
 $N_5 = 1.45287$
 $R = 3.71634$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.38980$ $N_3 := .99977$
 $N_4 := .73589$ $N_5 := 1.45287$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$FG := \frac{N_2}{N_2 + N_3} \quad BG := N_3 \cdot FG$$

$$AC := \frac{N_1 \cdot (AB - FG)}{N_1 - BG} \quad BE := N_4 \cdot (AB - AC)$$

$$BP := \frac{BE}{AC} \quad HJ := \frac{BP}{BP + N_1}$$

$$BO := N_5 \cdot (AB - HJ) \quad R := \frac{BO}{HJ}$$

$$R = 3.716336$$

Definitions.

$$R - \frac{N_1^2 \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

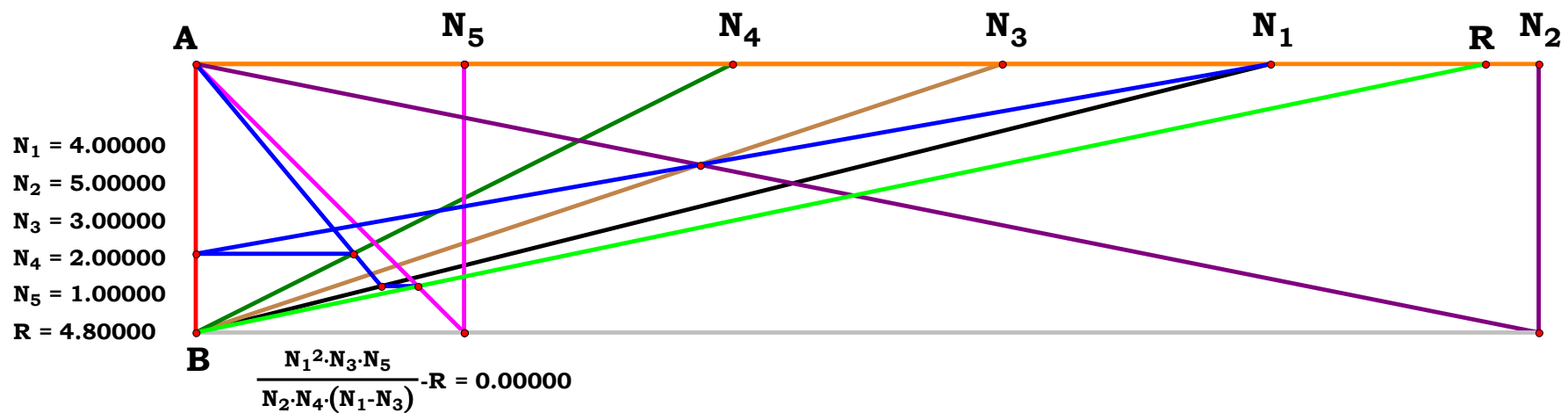
$$R - \frac{B \cdot D \cdot N_u}{E \cdot [A \cdot (C - A)]} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V^2 \cdot X \cdot Z \cdot m \cdot o}{W \cdot Y \cdot 1 \cdot p \cdot (V \cdot n - X \cdot 1)} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

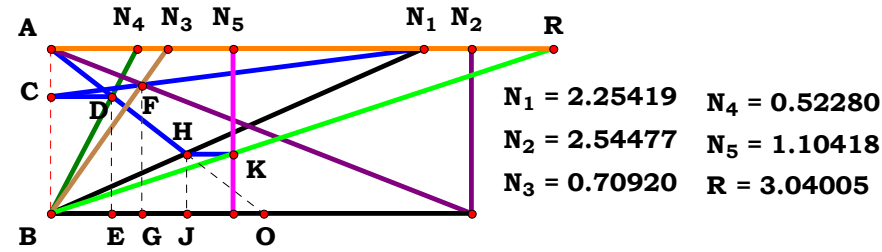


$N_1 = 4.00000$
 $N_2 = 5.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $N_5 = 1.00000$
 $R = 4.80000$

$$\frac{N_1^2 \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} - R = 0.00000$$



1CST7R12



Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 2.54477$ $N_3 := .70920$

$N_4 := .52280$ $N_5 := 1.10418$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$FG := \frac{N_2}{N_2 + N_3} \quad BG := FG \cdot N_3$$

$$AC := \frac{N_1 \cdot (AB - FG)}{N_1 - BG} \quad BE := N_4 \cdot (AB - AC)$$

$$BO := \frac{BE}{AC} \quad HJ := \frac{BO}{BO + N_1}$$

$$R := \frac{N_5}{HJ} \quad R = 3.040066$$

Definitions.

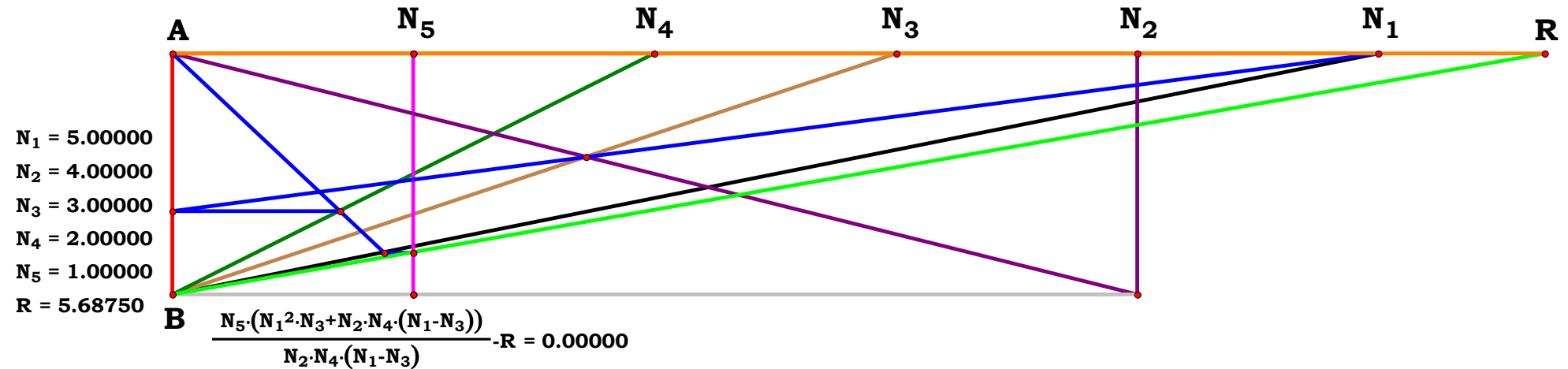
$$R - \frac{N_5 \cdot [N_1^2 \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3)]}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (A^2 - C \cdot A - B \cdot D)}{A \cdot E \cdot (A - C)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (X \cdot m \cdot o \cdot V^2 + W \cdot Y \cdot n \cdot V \cdot l - W \cdot X \cdot Y \cdot l^2)}{W \cdot Y \cdot l \cdot p \cdot (V \cdot n - X \cdot l)} = 0$$

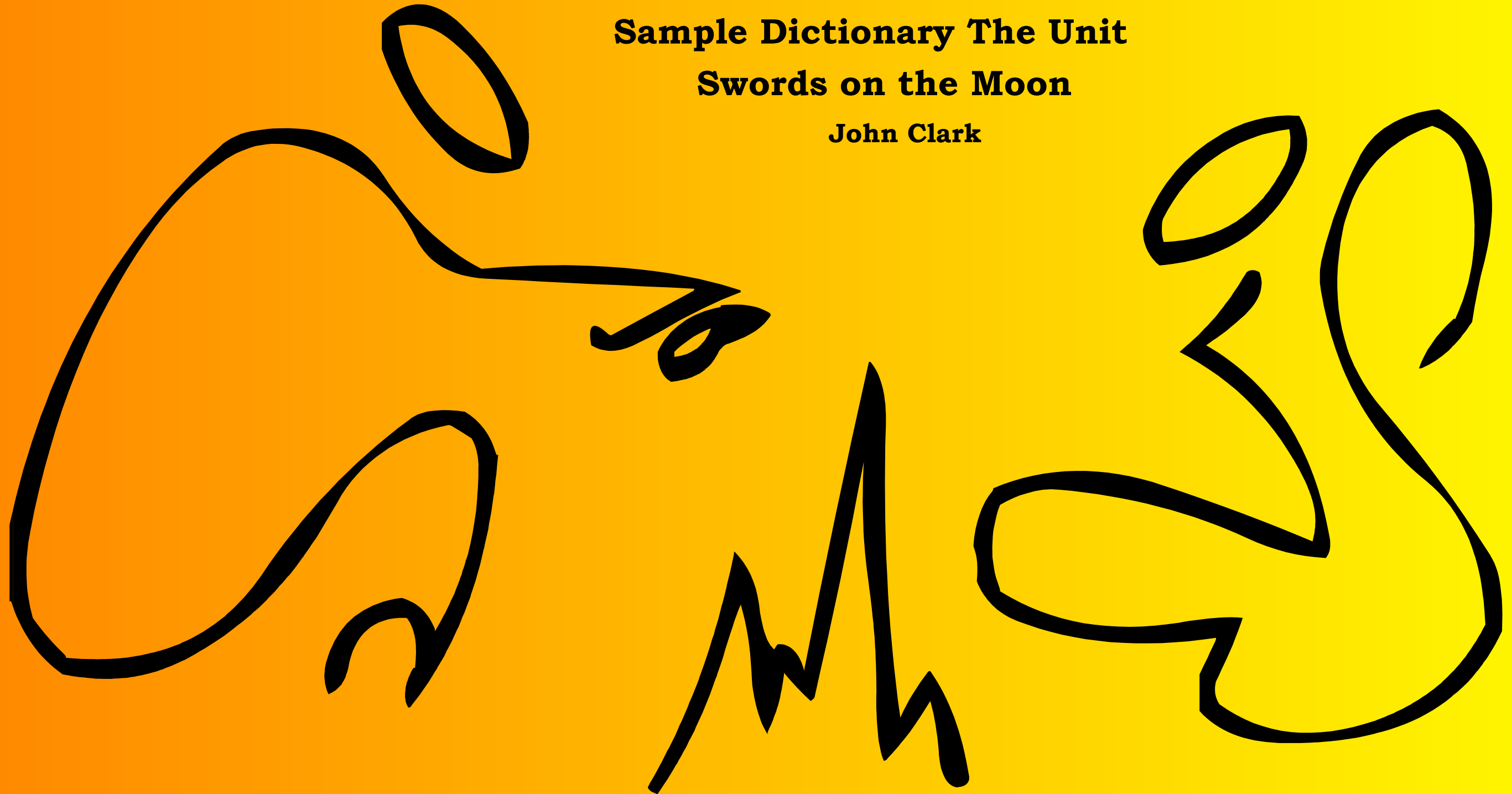


Basic Analog Grammar

Sample Dictionary The Unit

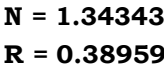
Swords on the Moon

John Clark



John 312

2SMT1R0


$$\mathbf{N}_{\mathbf{u}} := 3 \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$
$$\mathbf{EN} := \sqrt{\mathbf{AE}^2 + \mathbf{N}^2} \quad \mathbf{BE} := \frac{\mathbf{AE}^2}{\mathbf{EN}}$$

$$\mathbf{BF} := \frac{\mathbf{AE} \cdot \mathbf{BE}}{\mathbf{EN}} \qquad \mathbf{EG} := \frac{\mathbf{EN} \cdot \mathbf{BE}}{\mathbf{N}}$$

$$\mathbf{CG} := \mathbf{BF} \quad \mathbf{CE} := \sqrt{\mathbf{EG}^2 + \mathbf{CG}^2}$$

$$\mathbf{DE} := \frac{\mathbf{CG} \cdot \mathbf{AE}}{\mathbf{CE}} \qquad \mathbf{R} := \frac{\mathbf{EG} \cdot \mathbf{DE}}{\mathbf{CE}}$$

Definitions.

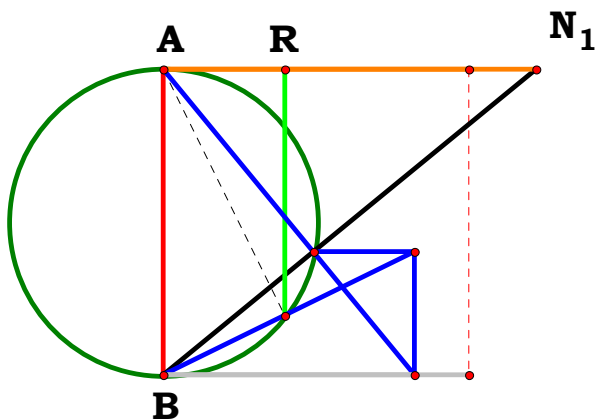
$$R - \frac{N^3 + N}{N^4 + 3 \cdot N^2 + 1} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$R - \frac{A \cdot N_u \cdot (A^2 + N_u^2)}{A^4 + 3 \cdot A^2 \cdot N_u^2 + N_u^4} = 0$$

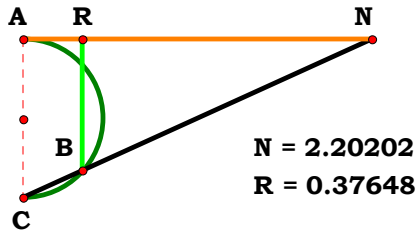
$$\mathbf{N} - \frac{\mathbf{z}}{q} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot \mathbf{q} \cdot (\mathbf{z}^2 + \mathbf{q}^2)}{\mathbf{z}^4 + 3 \cdot \mathbf{z}^2 \cdot \mathbf{q}^2 + \mathbf{q}^4} = 0$$





2SMT1R1



$N = 2.20202$
 $R = 0.37648$

Unit. $AC := 1$ Given. $N := 2.20202$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

Descriptions.

$BC := \frac{1}{\left(N^2 + 1\right)^{\frac{1}{2}}}$ $CN := \sqrt{N^2 + AC^2}$

$R := \frac{N \cdot BC}{CN}$ $R = 0.376485$

Definitions.

$R - \frac{N}{N^2 + 1} = 0$

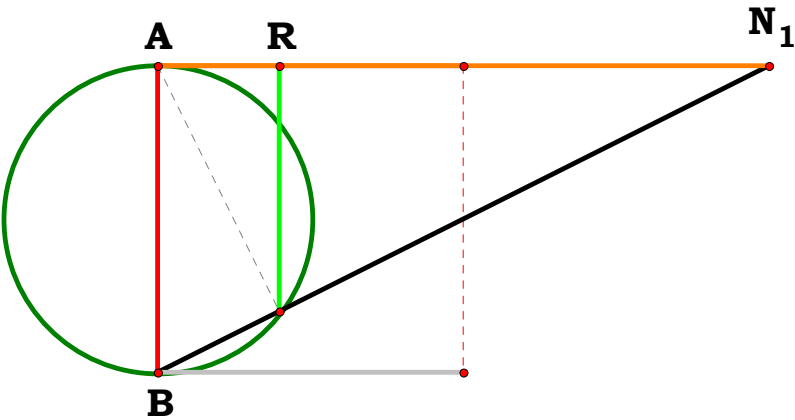
$N - \frac{N_u}{A} = 0$

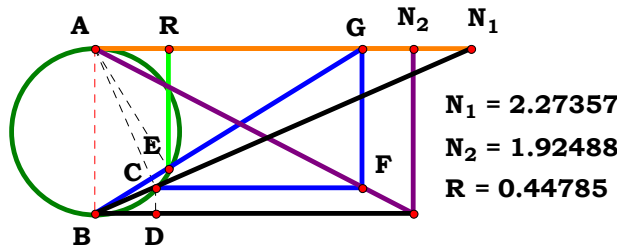
$R - \frac{A \cdot N_u}{A^2 + N_u^2} = 0$

$N - \frac{Z}{q} = 0$

$R - \frac{Z \cdot q}{Z^2 + q^2} = 0$

$N_1 = 2.00000$
 $R = 0.40000$
 $\frac{N_1}{N_1^2 + 1} - R = 0.00000$





Unit. $AB := 1$ Given. $N_1 := 2.27357$ $N_2 := 1.92488$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BC := \frac{AB^2}{BN_1} \quad CD := \frac{AB \cdot BC}{BN_1}$$

$$AG := N_2 \cdot (AB - CD) \quad BG := \sqrt{AG^2 + AB^2}$$

$$BE := \frac{AB^2}{BG} \quad R := \frac{AG \cdot BE}{BG}$$

$$R = 0.447853$$

Definitions.

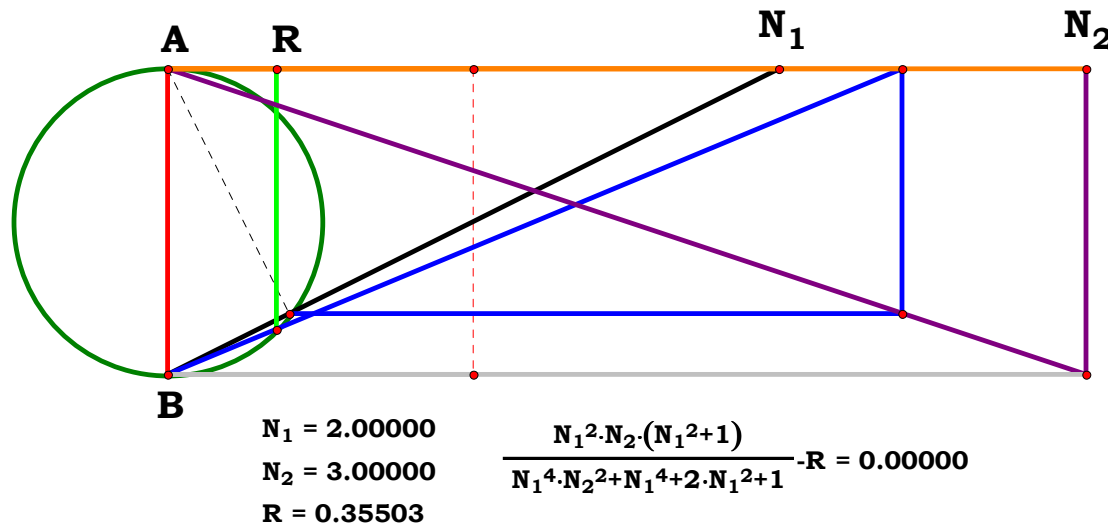
$$R - \frac{N_1^2 \cdot N_2 \cdot (N_1^2 + 1)}{N_1^4 \cdot N_2^2 + N_1^4 + 2 \cdot N_1^2 + 1} = 0$$

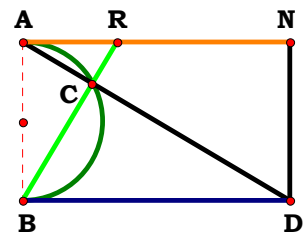
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{B \cdot N_u^3 \cdot (A^2 + N_u^2)}{A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot Z \cdot q \cdot (Y^2 + p^2)}{Y^4 \cdot Z^2 + Y^4 \cdot q^2 + 2 \cdot Y^2 \cdot p^2 \cdot q^2 + p^4 \cdot q^2} = 0$$





$N = 1.68687$
 $R = 0.59281$

Unit. $AB := 1$ Given. $N := 1.68687$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

Descriptions.

$AC := \frac{1}{\left(N^2 + 1\right)^{\frac{1}{2}}}$ $AD := \sqrt{N^2 + AB^2}$

$R := \frac{AD \cdot AC}{N}$ $R = 0.592814$

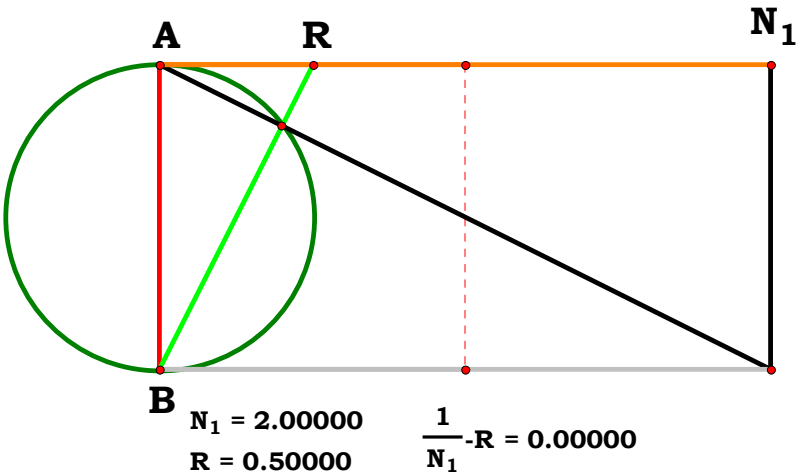
Definitions.

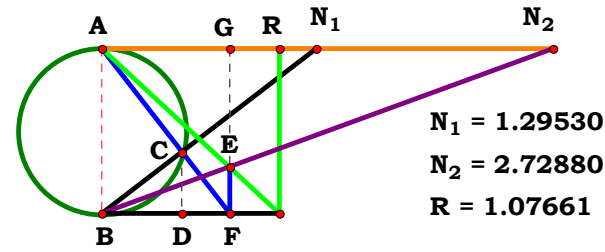
$R - \frac{1}{N} = 0$

$N - \frac{N_u}{A} = 0$

$R - \frac{A}{N_u} = 0$

$N - \frac{Z}{q} = 0$





Unit. $AB := 1$ **Given.** $N_1 := 1.29530$ $N_2 := 2.72880$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BF} := \frac{1}{N_1} \quad \mathbf{EF} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{N_2}$$

$$\mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{EF}} \quad \mathbf{R} = 1.076613$$

Definitions.

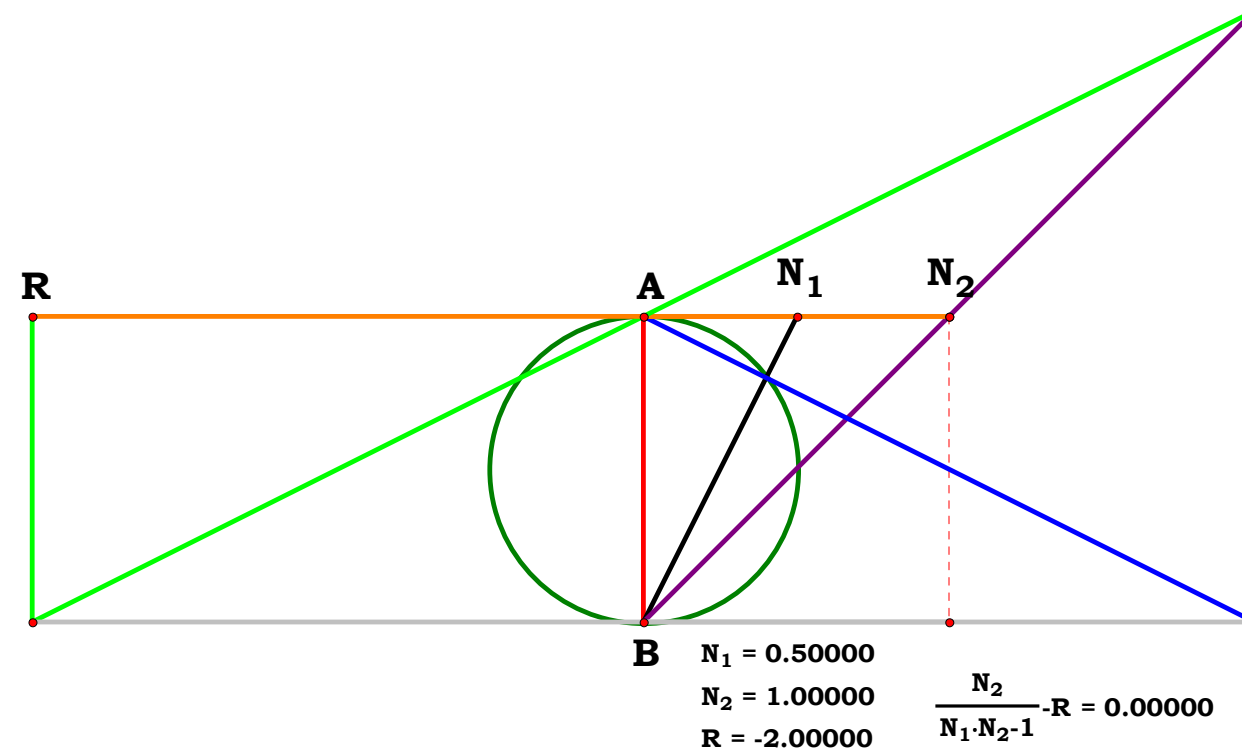
$$R - \frac{N_2}{N_1 \cdot N_2 - 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

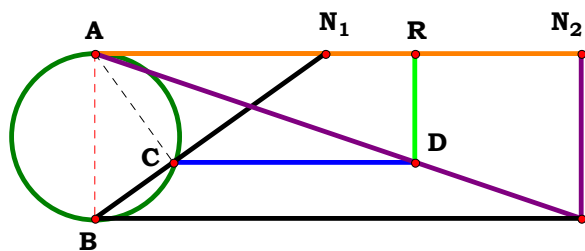
$$R - \frac{A \cdot N_u}{N_u^2 - A \cdot B} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot \mathbf{p}}{\mathbf{Y} \cdot \mathbf{Z} - \mathbf{p} \cdot \mathbf{q}} = 0$$



2SMT1R5



Unit. AB := 1 **Given.** $N_1 := 1.39216$ $N_2 := 2.94189$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{CN}_1 := \frac{\mathbf{N}_1^2}{\mathbf{BN}_1}$$

$$\mathbf{DR} := \frac{\mathbf{AB} \cdot \mathbf{CN}_1}{\mathbf{BN}_1} \quad \mathbf{R} := \mathbf{N}_2 \cdot \mathbf{DR}$$

R = 1.940603

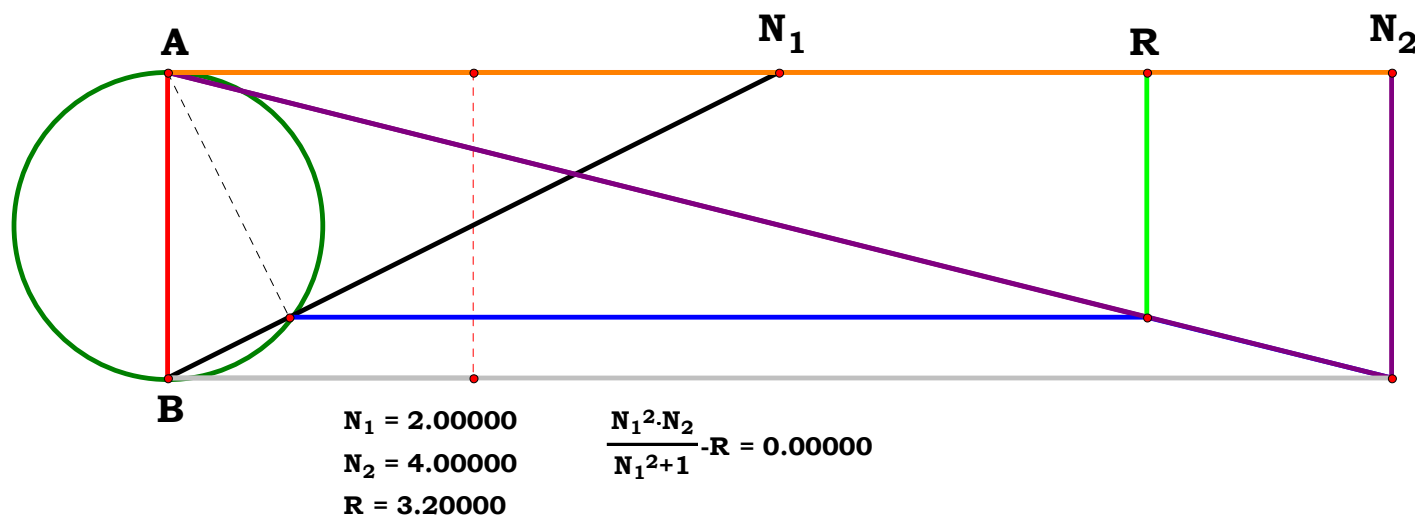
$$R - \frac{N_1^2 \cdot N_2}{N_1^2 + 1} = 0$$

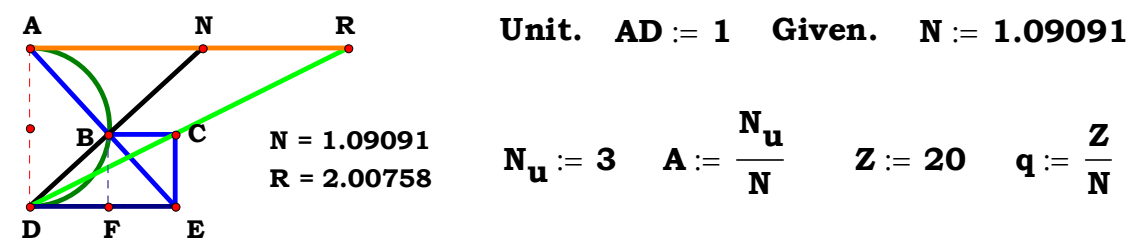
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u^3}{\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y}^2 \cdot \mathbf{Z}}{\mathbf{q} \cdot (\mathbf{Y}^2 + \mathbf{p}^2)} = \mathbf{0}$$





Descriptions.

$$BF := \frac{1}{1 + N^2} \quad CE := BF$$

$$DE := \frac{1}{N} \quad R := \frac{DE \cdot AD}{CE}$$

$$R = 2.007576$$

Definitions.

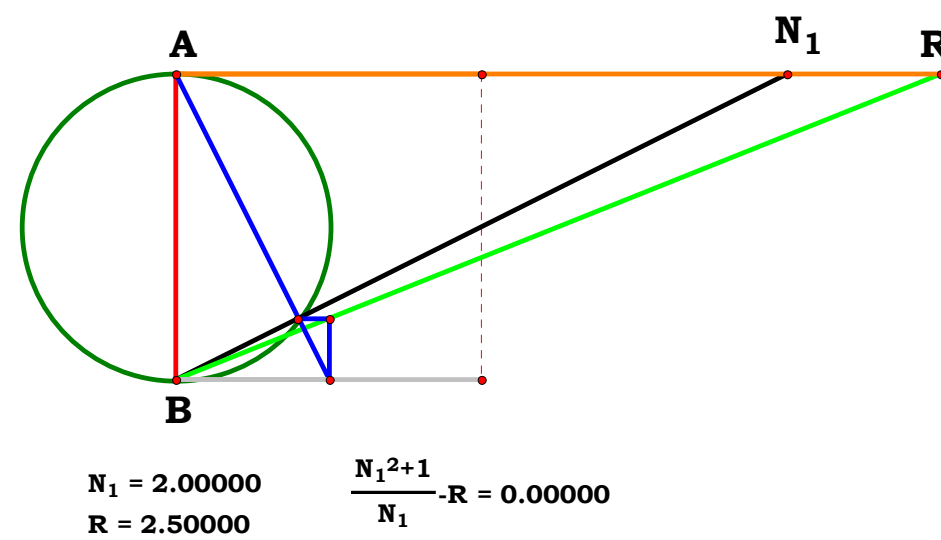
$$R - \frac{N^2 + 1}{N} = 0$$

$$N - \frac{N_u}{A} = 0$$

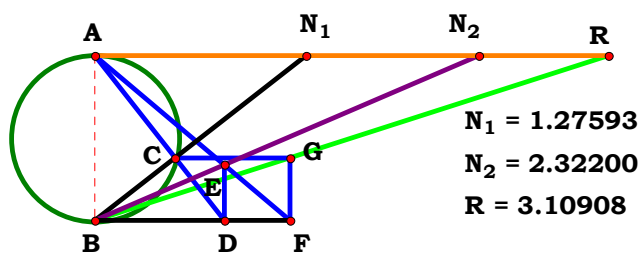
$$R - \frac{A^2 + N_u^2}{A \cdot N_u} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z^2 + q^2}{Z \cdot q} = 0$$



2SMT1R7


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{BD} := \frac{1}{N_1} \quad \mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{N_2}$$

$$\mathbf{BF} := \frac{\mathbf{BD}}{(\mathbf{AB} - \mathbf{DE})} \quad \mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2}$$

$$\mathbf{BC} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1} \quad \mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{BC}}{\mathbf{BN}_1}$$

$$\mathbf{R} := \frac{\mathbf{BF}}{\mathbf{FG}} \quad \mathbf{R} = 3.109074$$

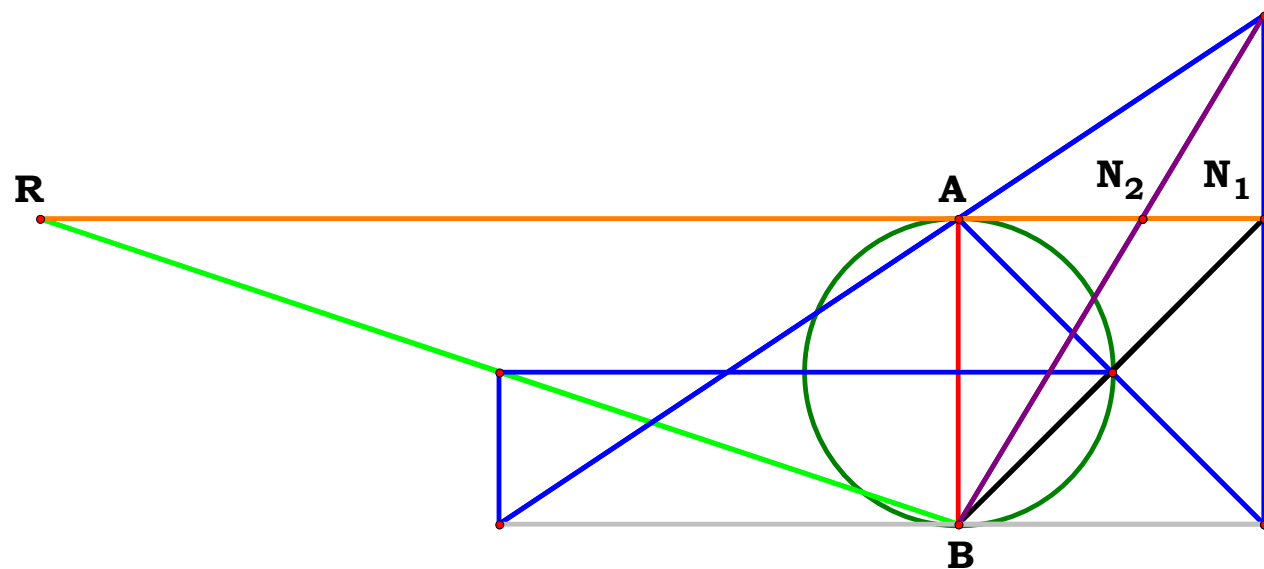
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 + 1)}{\mathbf{N}_1 \cdot \mathbf{N}_2 - 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

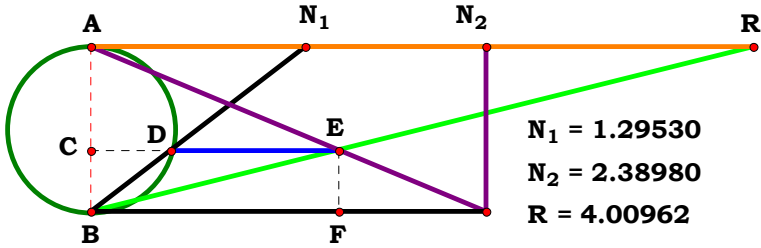
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{A} \cdot (\mathbf{N}_u^2 - \mathbf{A} \cdot \mathbf{B})} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y}^2 + \mathbf{p}^2)}{\mathbf{p} \cdot (\mathbf{Y} \cdot \mathbf{Z} - \mathbf{p} \cdot \mathbf{q})} = 0$$



$$\begin{array}{l} N_1 = 1.00000 \\ N_2 = 0.60000 \\ R = -3.00000 \end{array} \quad \frac{N_2 \cdot (N_1^2 + 1)}{N_1 \cdot N_2 - 1} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.29530$ $N_2 := 2.38980$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1}$$

$$BC := \frac{AB \cdot BD}{BN_1} \quad AC := AB - BC$$

$$BF := N_2 \cdot AC \quad R := \frac{BF}{BC}$$

$$R = 4.009611$$

Definitions.

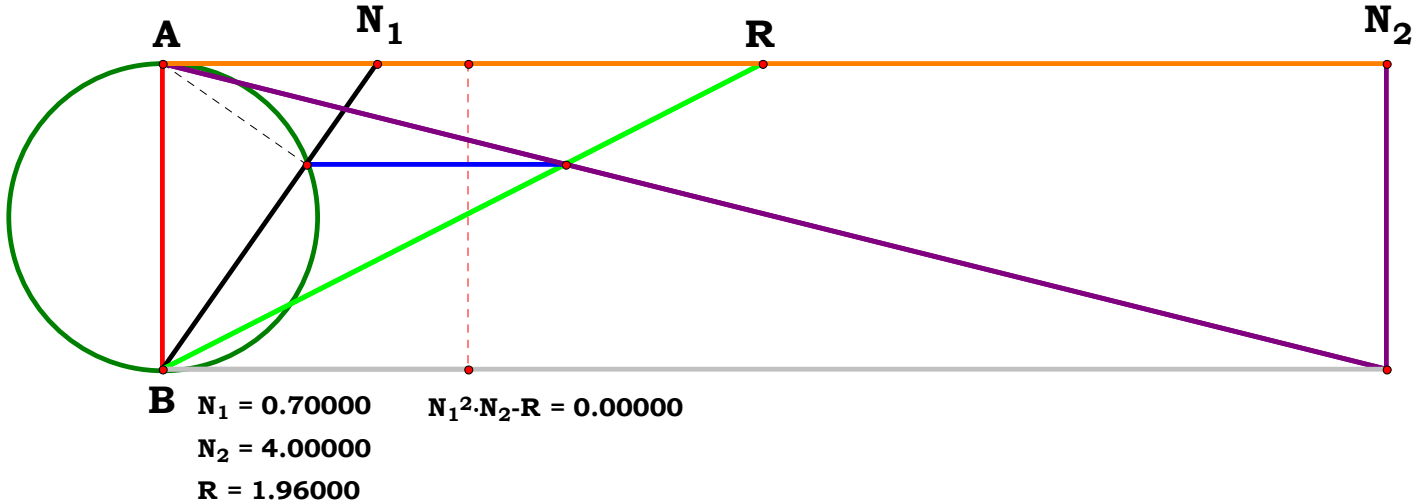
$$R - N_1^2 \cdot N_2 = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

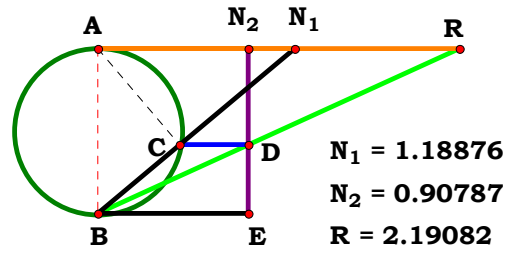
$$R - \frac{N_u^3}{A^2 \cdot B} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot Z}{p^2 \cdot q} = 0$$



2SMT1R9



Unit. $AB := 1$ **Given.** $N_1 := 1.18876$ $N_2 := .90787$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{BC} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BC}}{\mathbf{BN}_1} \quad \mathbf{R} := \frac{\mathbf{N}_2}{\mathbf{DE}}$$

R = 2.190827

Definitions.

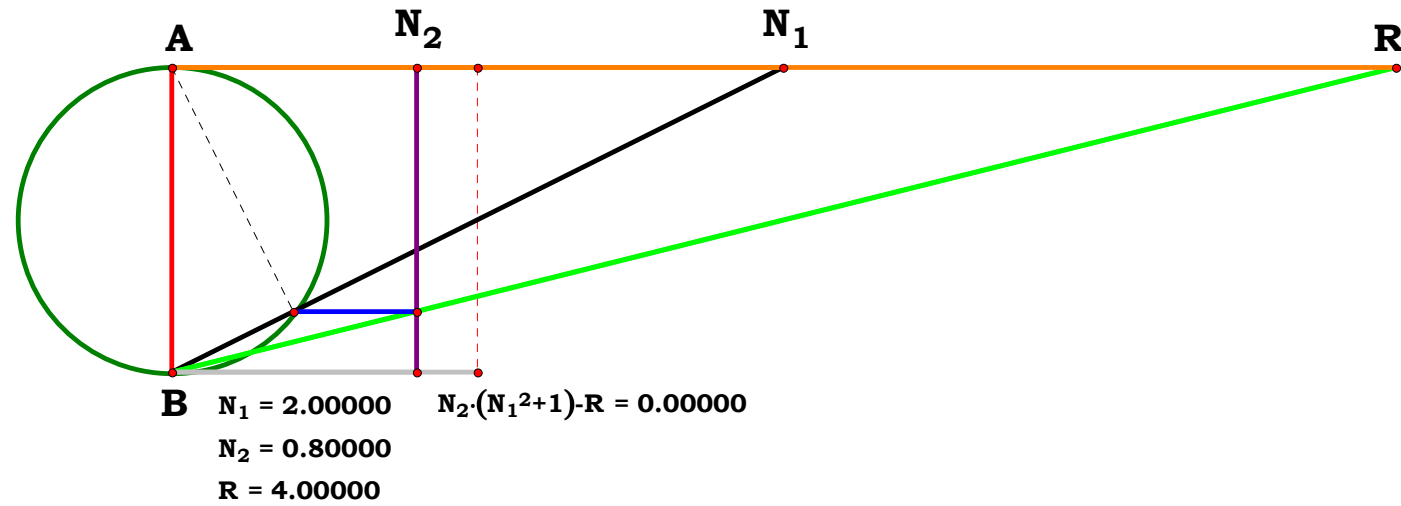
$$\mathbf{R} - \mathbf{N}_2 \cdot (\mathbf{N}_1^2 + \mathbf{1}) = \mathbf{0}$$

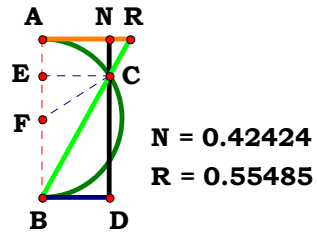
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{A}^2 \cdot \mathbf{B}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot (\mathbf{y}^2 + \mathbf{p}^2)}{\mathbf{p}^2 \cdot \mathbf{q}} = \mathbf{0}$$





Unit. AB := 1 Given. N := .42424

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{N} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{N}$$

Descriptions.

$$\mathbf{BF} := \frac{\mathbf{AB}}{2} \quad \mathbf{BE} := \mathbf{N}$$

$$\mathbf{EF} := \sqrt{\mathbf{BF}^2 - \mathbf{BE}^2}$$

$$\mathbf{BD} := \frac{\mathbf{AB}}{2} + \mathbf{EF} \quad \mathbf{R} := \frac{\mathbf{N} \cdot \mathbf{AB}}{\mathbf{BD}}$$

R = 0.554842

Definitions.

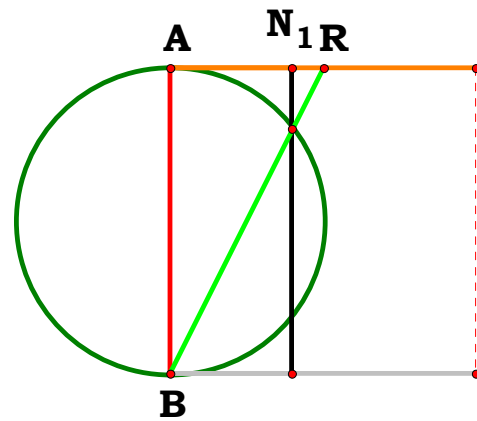
$$R - \frac{2N}{\left(1 - 4 \cdot N^2\right)^{\frac{1}{2}} + 1} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$R - \frac{2 \cdot N_u}{A + \sqrt{A^2 - 4 \cdot N_u^2}} = 0$$

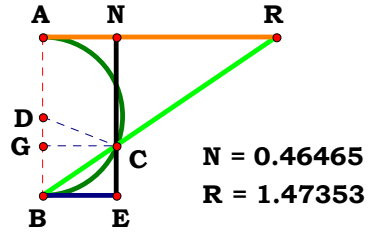
$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{q} - \sqrt{\mathbf{q}^2 - 4 \cdot \mathbf{z}^2}}{2 \cdot \mathbf{z}} = 0$$



$$\frac{2 \cdot N_1}{(1 - 4 \cdot N_1^2)^{\frac{1}{2}} + 1} \cdot R = 0.00000$$

2SMT1R11



Unit. AB := 1 Given. N := .46465

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{N} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{N}$$

Descriptions.

$$\mathbf{DC} := \frac{\mathbf{AB}}{2} \qquad \mathbf{CG} := \mathbf{N}$$

$$\mathbf{DG} := \sqrt{\mathbf{DC}^2 - \mathbf{CG}^2}$$

$$\mathbf{CE} := \frac{\mathbf{AB}}{2} - \mathbf{DG} \quad \mathbf{R} := \frac{\mathbf{N} \cdot \mathbf{AB}}{\mathbf{CE}}$$

R = 1.473502

Definitions.

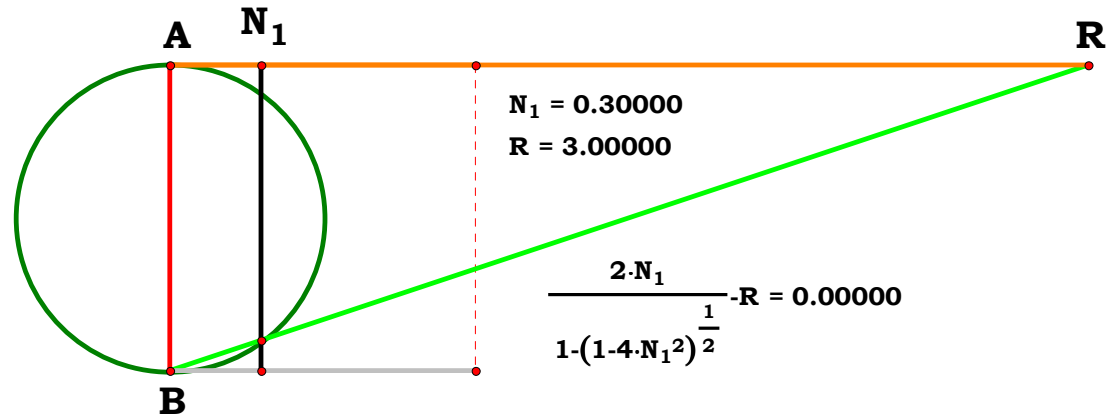
$$R - \frac{2N}{1 - \sqrt{1 - 4N^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

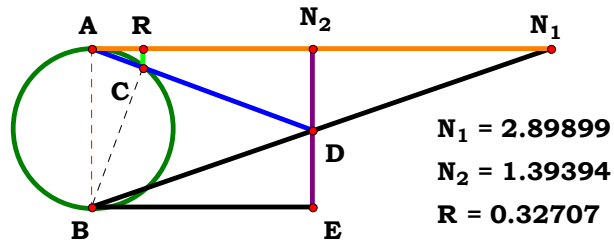
$$R - \frac{2 \cdot N_u}{A - \sqrt{A^2 - 4 \cdot N_u^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$R - \frac{2 \cdot Z}{q - \sqrt{q^2 - 4 \cdot Z^2}} = 0$$



2SMT2R0



Unit. AB := 1 **Given.** N₁ := 2.89899 N₂ := 1.39394

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{AB} := \mathbf{1} \quad \mathbf{DN}_2 := \mathbf{1} - \frac{\mathbf{N}_2}{\mathbf{N}_1}$$

$$\mathbf{AD} := \sqrt{\mathbf{N}_2^2 + \mathbf{DN}_2^2} \quad \mathbf{AC} := \frac{\mathbf{DN}_2 \cdot \mathbf{AB}}{\mathbf{AD}}$$

$$R := \frac{AC \cdot N_2}{AD} \quad R = 0.327074$$

Definitions.

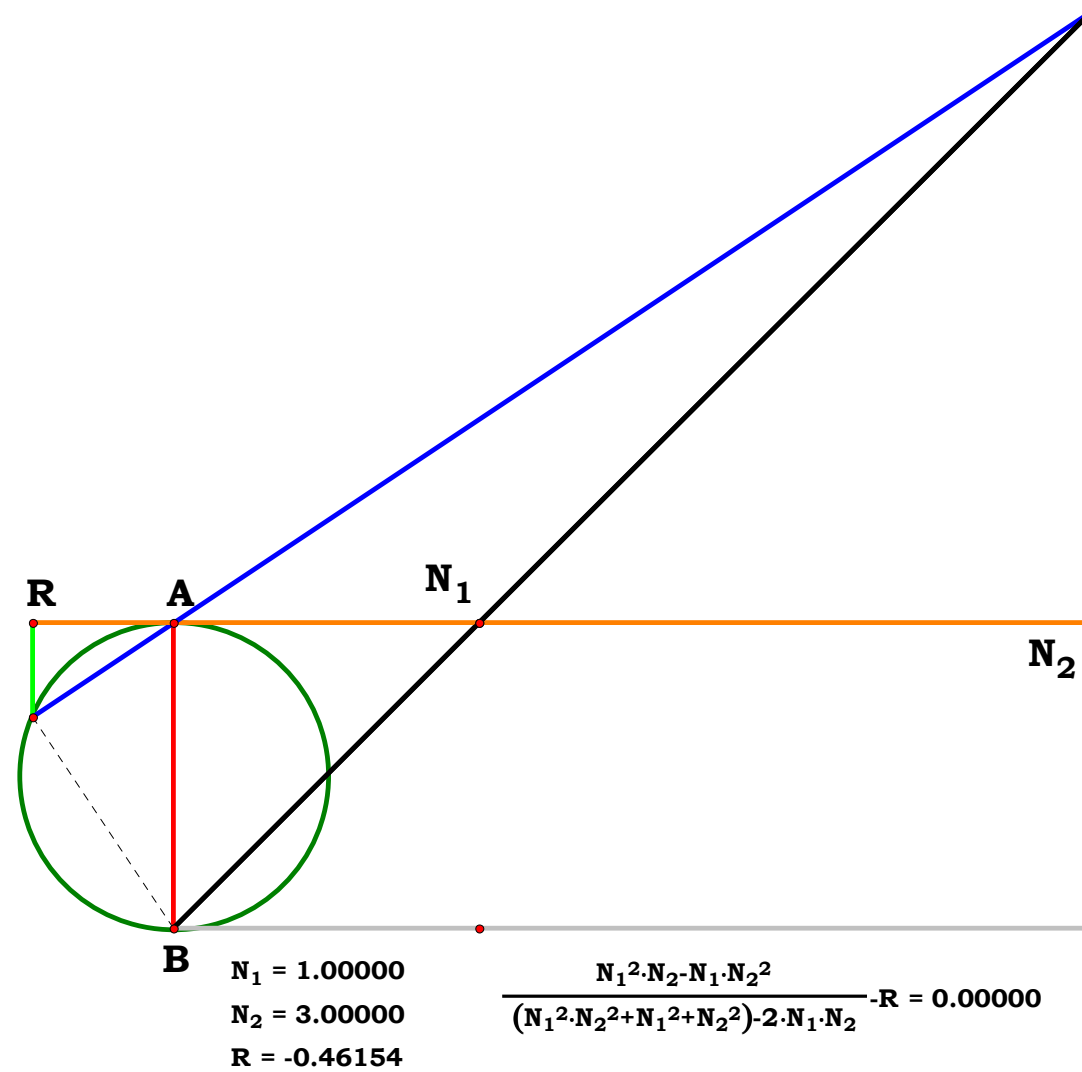
$$R - \frac{N_1^2 \cdot N_2 - N_1 \cdot N_2^2}{N_1^2 \cdot N_2^2 + N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2} = 0$$

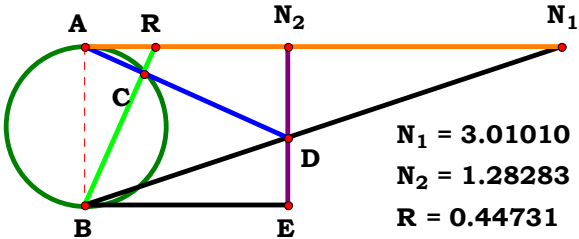
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{A})}{\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + \mathbf{B}^2 + \mathbf{N_u}^2} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$R - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{q} - \mathbf{Z} \cdot \mathbf{p})}{\mathbf{Y}^2 \cdot \mathbf{Z}^2 + \mathbf{Y}^2 \cdot \mathbf{q}^2 - 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} + \mathbf{Z}^2 \cdot \mathbf{p}^2} = 0$$





Unit. $AB := 1$ Given. $N_1 := 3.01010$ $N_2 := 1.28283$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$AB := 1 \quad DN_2 := 1 - \frac{N_2}{N_1}$$

$$R := \frac{DN_2 \cdot AB}{N_2} \quad R = 0.447312$$

Definitions.

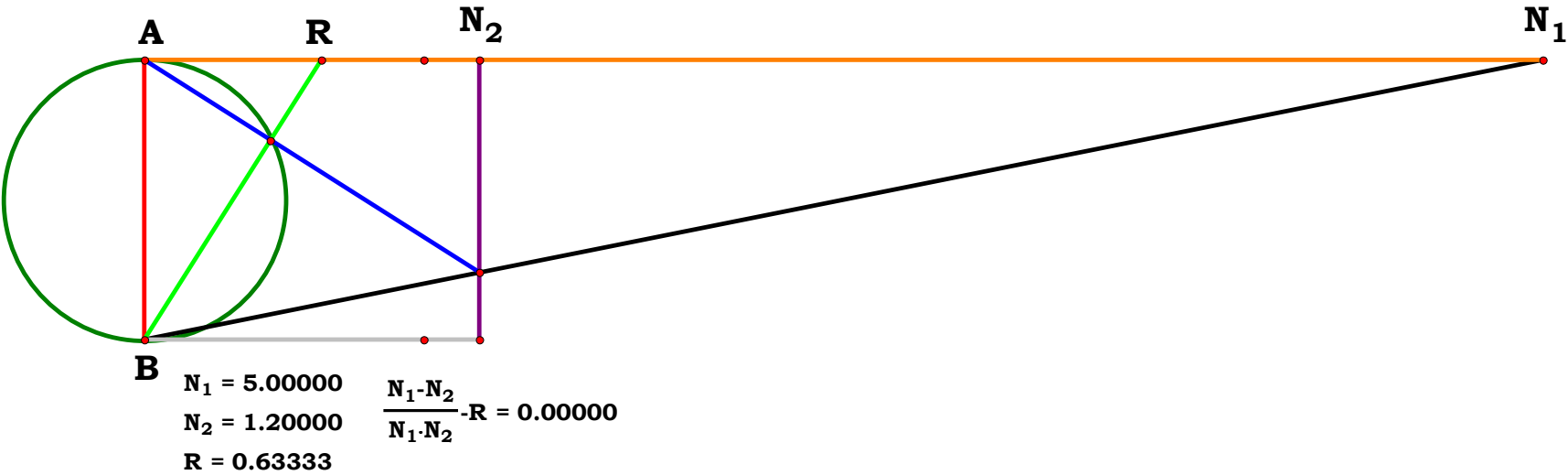
$$R - \frac{N_1 - N_2}{N_1 \cdot N_2} = 0$$

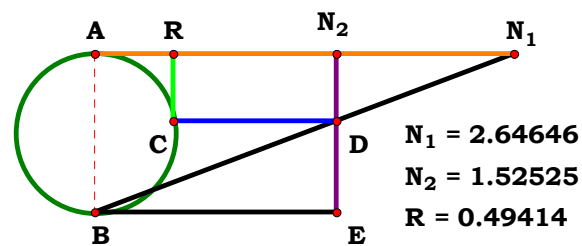
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{B - A}{N_u} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot q - Z \cdot p}{Y \cdot Z} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.64646$ $N_2 := 1.52525$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

$N_1 = 2.64646$
 $N_2 = 1.52525$
 $R = 0.49414$

Descriptions.

$$DE := \frac{N_2}{N_1} \quad DN_2 := 1 - DE$$

$$R := \sqrt{DE \cdot DN_2} \quad R = 0.494138$$

Definitions.

$$R - \frac{\sqrt{N_1 \cdot N_2 - N_2^2}}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

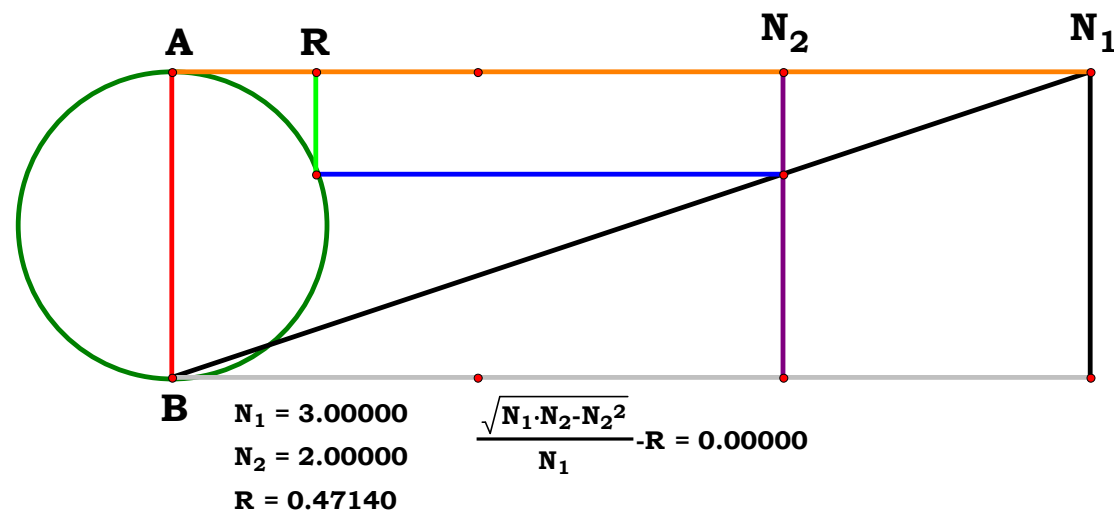
Notice that N_u disappeared.

$$R - \frac{A \cdot \sqrt{(B - A)}}{B \cdot \sqrt{A}} = 0$$

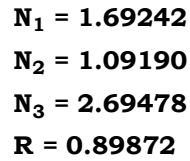
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{p} \cdot \sqrt{Z \cdot (Y \cdot q - Z \cdot p)}}{Y \cdot q} = 0$$

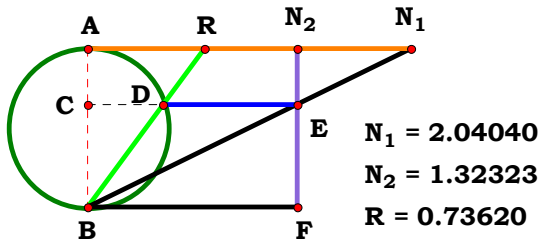
Another way to construct a parabola, with a different equation.



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $R = 0.47140$
 $\frac{\sqrt{N_1 \cdot N_2 - N_2^2}}{N_1} - R = 0.00000$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot \sqrt{\mathbf{o}} \cdot \sqrt{\mathbf{Y} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})}}{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \sqrt{\mathbf{o}} \cdot \mathbf{q} \cdot \sqrt{\mathbf{Y} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.04040$ $N_2 := 1.32323$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

$$\begin{aligned} N_1 &= 2.04040 \\ N_2 &= 1.32323 \\ R &= 0.73620 \end{aligned}$$

Descriptions.

$$AB := 1 \quad EF := \frac{N_2}{N_1} \quad EN_2 := 1 - EF$$

$$CD := \sqrt{EF \cdot EN_2} \quad R := \frac{CD \cdot AB}{EF}$$

$$R = 0.736196$$

Definitions.

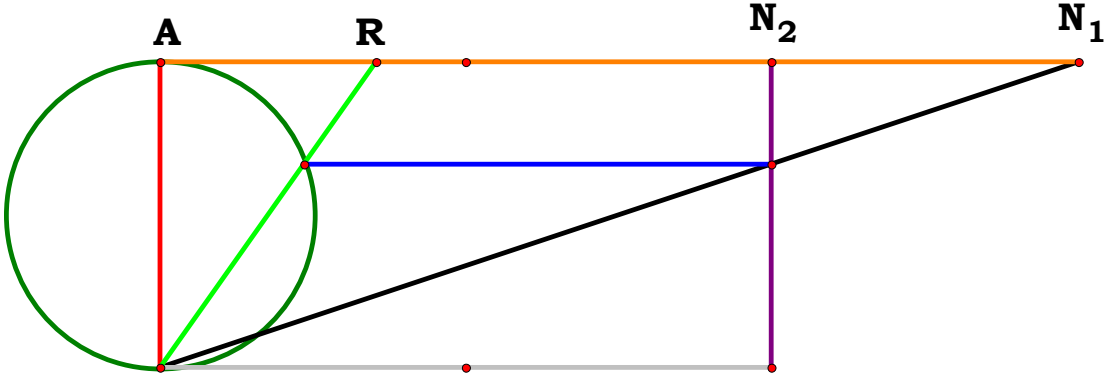
$$R - \frac{N_1 \cdot \sqrt{N_2 \cdot (N_1 - N_2)}}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{B \cdot \sqrt{B - A}}{\sqrt{A \cdot B^2}} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

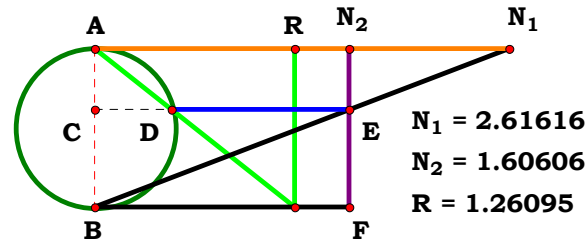
$$R - \frac{\sqrt{Z \cdot (Y \cdot q - Z \cdot p)}}{Z \cdot \sqrt{p}} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ R &= 0.70711 \end{aligned} \quad \frac{N_1 \cdot \sqrt{N_2 \cdot (N_1 - N_2)}}{N_1 \cdot N_2} - R = 0.00000$$



2SMT2R5



Unit. $AB := 1$ **Given.** $N_1 := 2.61616$ $N_2 := 1.60606$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{EF} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EN}_2 := \mathbf{1} - \mathbf{EF}$$

$$\mathbf{CD} := \sqrt{\mathbf{EN}_2 \cdot \mathbf{EF}} \quad \mathbf{R} := \frac{\mathbf{CD}}{\mathbf{EN}_2}$$

R = 1.260952

Definitions.

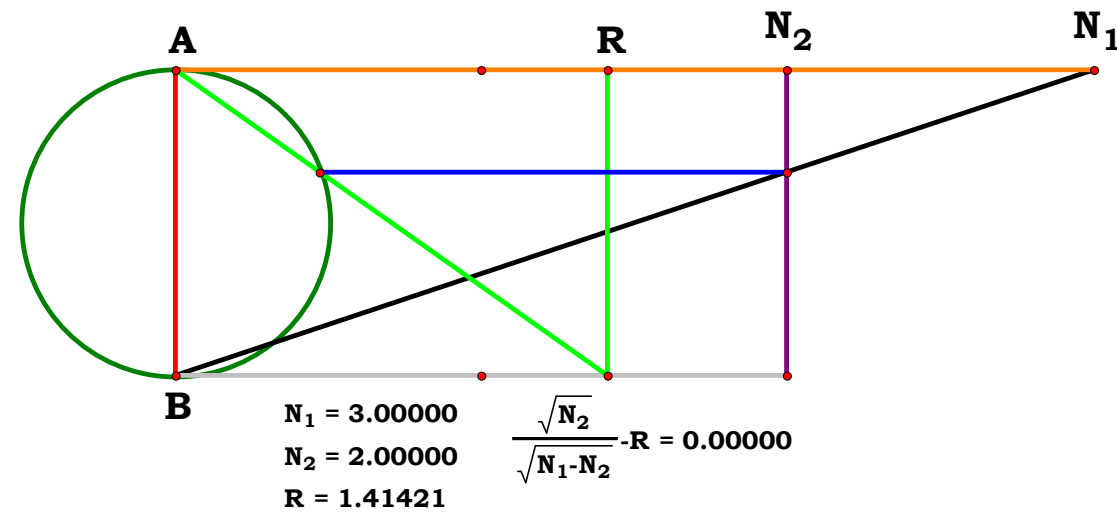
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2}}{\sqrt{\mathbf{N}_1 - \mathbf{N}_2}} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N}_u - \mathbf{A} \cdot \mathbf{N}_u}} = 0$$

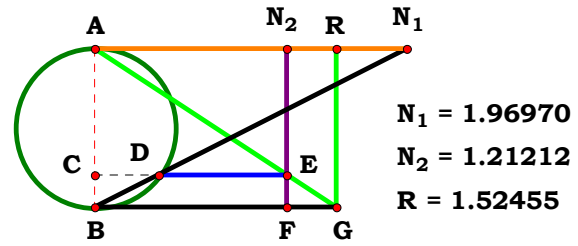
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z} \cdot} \sqrt{\mathbf{p} \cdot \mathbf{q}}}{\sqrt{\mathbf{q} \cdot} \sqrt{\mathbf{Y} \cdot \mathbf{q} - \mathbf{Z} \cdot \mathbf{p}}} = 0$$



$$\frac{\sqrt{N_2}}{\sqrt{N_1 - N_2}} \cdot R = 0.00000$$

2SMT2R7



Unit. $\text{AB} := 1$ **Given.** $N_1 := 1.96970$ $N_2 := 1.21212$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{1} + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{EF} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{R} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{EF}}$$

R = 1.524545

Definitions.

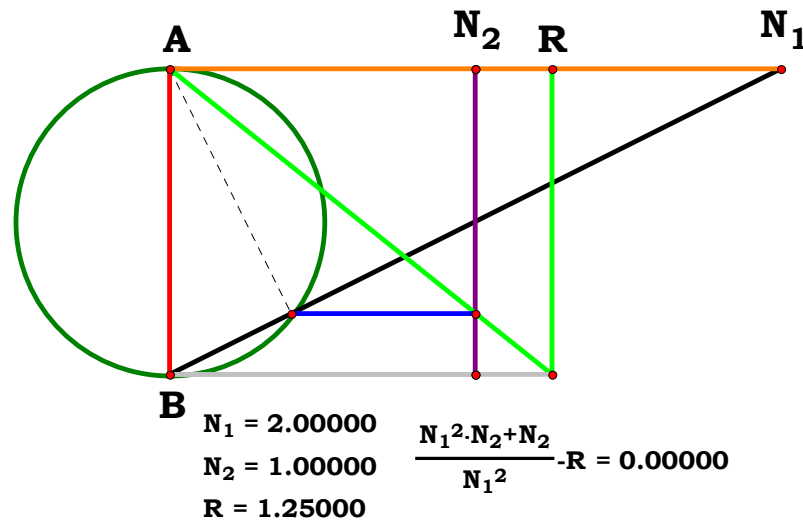
$$R - \frac{N_1^2 \cdot N_2 + N_2}{N_1^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^2 + \mathbf{N}_u^2}{\mathbf{B} \cdot \mathbf{N}_u} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot (\mathbf{y}^2 + \mathbf{p}^2)}{\mathbf{y}^2 \cdot \mathbf{q}} = \mathbf{0}$$





Descriptions.

$$BN_1 := \sqrt{1 + N_1^2} \quad BC := \frac{AB^2}{BN_1}$$

$$DE := \frac{AB \cdot BC}{BN_1} \quad R := \frac{N_2}{DE}$$

$$R = 3.241591$$

Definitions.

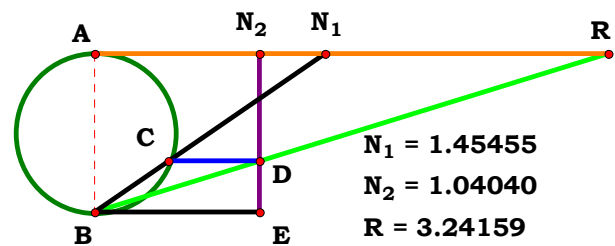
$$R - \left(N_1^2 \cdot N_2 + N_2\right) = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot \left(A^2 + N_u^2\right)}{A^2 \cdot B} = 0$$

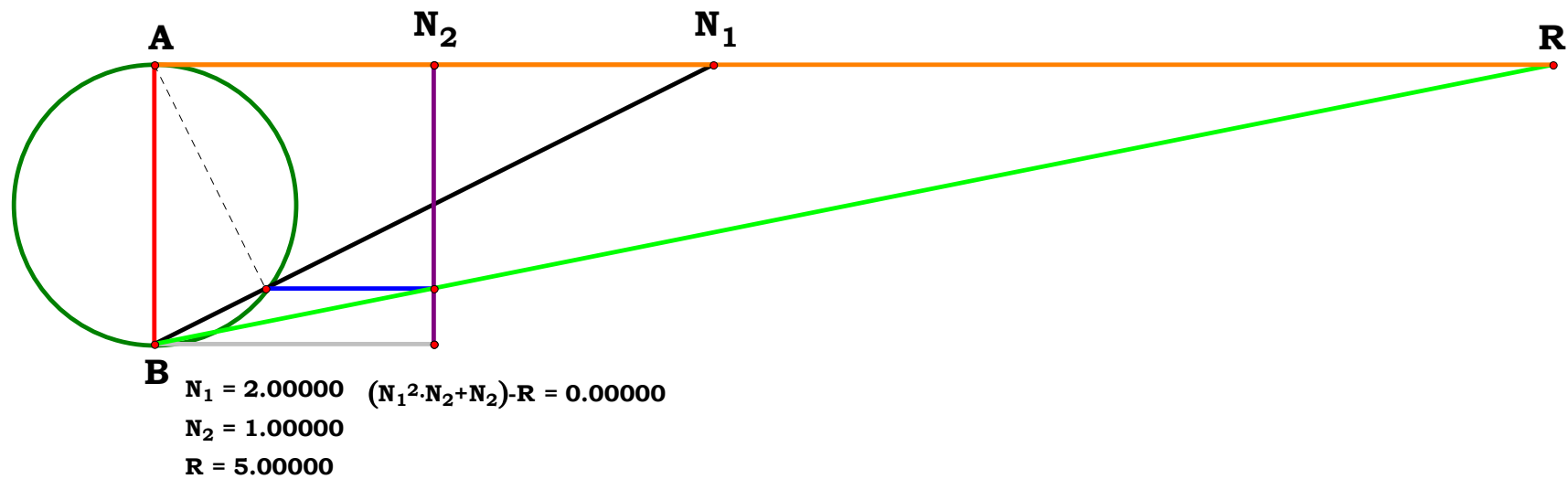
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot \left(Y^2 + p^2\right)}{p^2 \cdot q} = 0$$



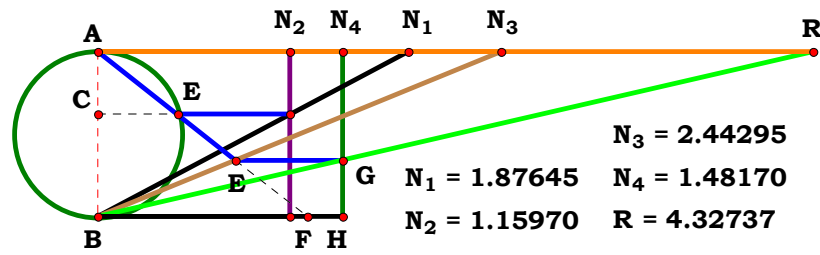
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.45455 \quad N_2 := 1.04040$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$





2SMT2R9



Unit. $AB := 1$ Given. $N_1 := 1.87645$ $N_2 := 1.15970$ $N_3 := 2.44295$ $N_4 := 1.48170$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := AB - \frac{N_2}{N_1} \quad CE := \sqrt{AC \cdot (AB - AC)}$$

$$BF := \frac{CE}{AC} \quad GH := \frac{BF}{BF + N_3}$$

$$R := \frac{N_4}{GH} \quad R = 4.327379$$

Definitions.

$$R - \frac{N_4 \cdot [N_1 \cdot \sqrt{N_2 \cdot (N_1 - N_2)} + N_1 \cdot N_3 \cdot (N_1 - N_2)]}{N_1 \cdot \sqrt{N_2 \cdot (N_1 - N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

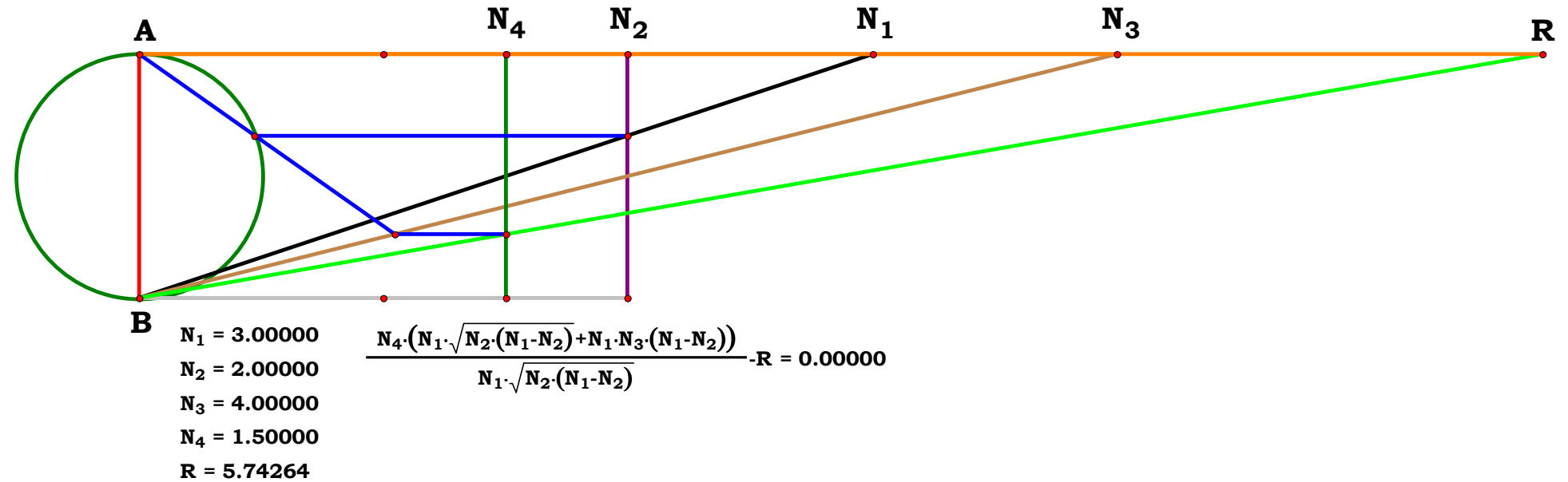
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [N_u \cdot (B - A) + C \cdot \sqrt{A \cdot (B - A)}]}{C \cdot D \cdot \sqrt{A \cdot (B - A)}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [W \cdot Y \cdot n - X \cdot Y \cdot m + \sqrt{m \cdot o} \cdot \sqrt{X \cdot (W \cdot n - X \cdot m)}]}{\sqrt{m \cdot o} \cdot p \cdot \sqrt{X \cdot (W \cdot n - X \cdot m)}} = 0$$





2SMT3R0

Descriptions.

$$\mathbf{BN}_1 := \sqrt{1 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{BE} := \frac{\mathbf{N}_1 \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{EF} := \mathbf{N}_2 - \mathbf{BE}$$

$$\mathbf{CE} := \frac{\mathbf{AB} \cdot \mathbf{EF}}{\mathbf{N}_2} \quad \mathbf{R} := \frac{\mathbf{BE} \cdot \mathbf{AB}}{\mathbf{CE}}$$

R = 0.475743

Definitions.

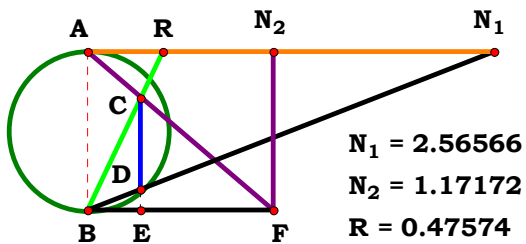
$$R - \frac{N_1 \cdot N_2}{N_1^2 \cdot N_2 + N_2 - N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A \cdot N_u}{A^2 - B \cdot A + N_u^2} = 0$$

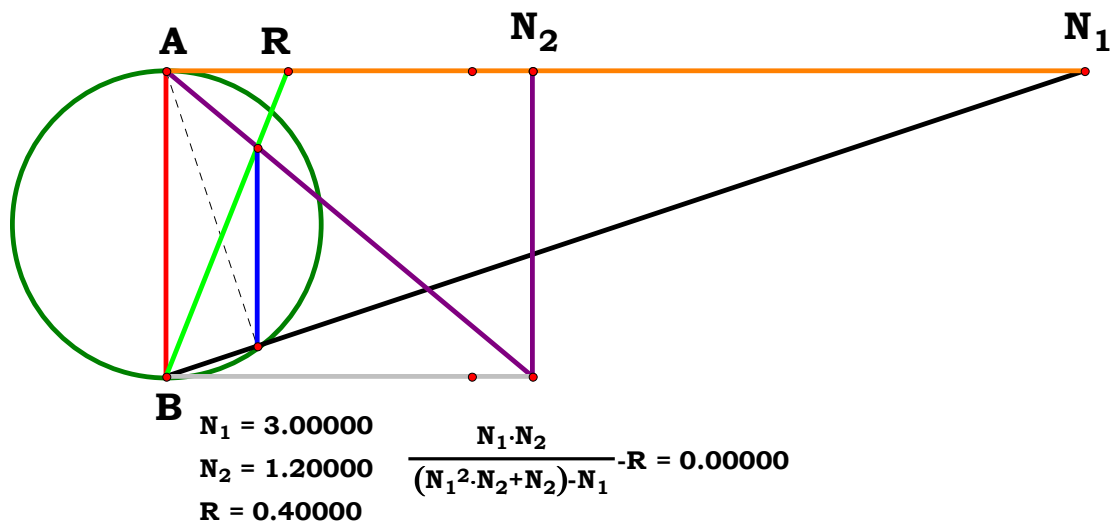
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{Z} \cdot \mathbf{Y}^2 - \mathbf{q} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{p}^2} = 0$$



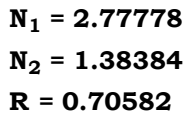
Unit. $\text{AB} := 1$ **Given.** $\text{N}_1 := 2.56566$ $\text{N}_2 := 1.17172$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 1.20000 \\ R &= 0.40000 \end{aligned} \quad \frac{N_1 \cdot N_2}{(N_1^2 \cdot N_2 + N_2) \cdot N_1} \cdot R = 0.00000$$

2SMT3R1


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{CD} := \sqrt{\mathbf{FG} \cdot (1 - \mathbf{FG})}$$

R = 0.70582

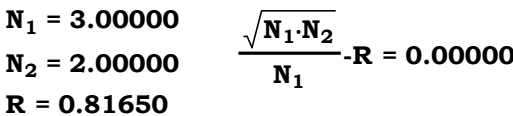
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_1 \cdot \mathbf{N}_2}}{\mathbf{N}_1} = 0$$

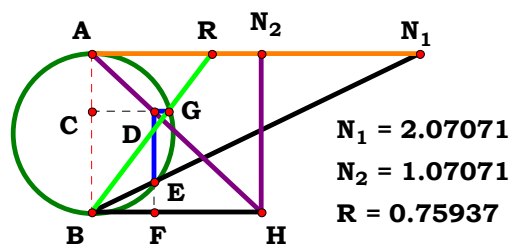
$$N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}}{\sqrt{\mathbf{A} \cdot \mathbf{B}}} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{p} \cdot \sqrt{\mathbf{Y} \cdot \mathbf{Z}}}{\mathbf{Y} \cdot \sqrt{\mathbf{p} \cdot \mathbf{q}}} = \mathbf{0}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{1} + \mathbf{N}_1^2} \quad \mathbf{BE} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{BE}}{\mathbf{BN}_1} \quad \mathbf{FH} := \mathbf{N}_2 - \mathbf{BF}$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{FH}}{\mathbf{N}_2} \quad \mathbf{AC} := 1 - \mathbf{FG}$$

$$\mathbf{CG} := \sqrt{\mathbf{AC} \cdot \mathbf{FG}} \quad \mathbf{R} := \frac{\mathbf{CG} \cdot \mathbf{AB}}{\mathbf{FG}}$$

R = 0.759364

Definitions.

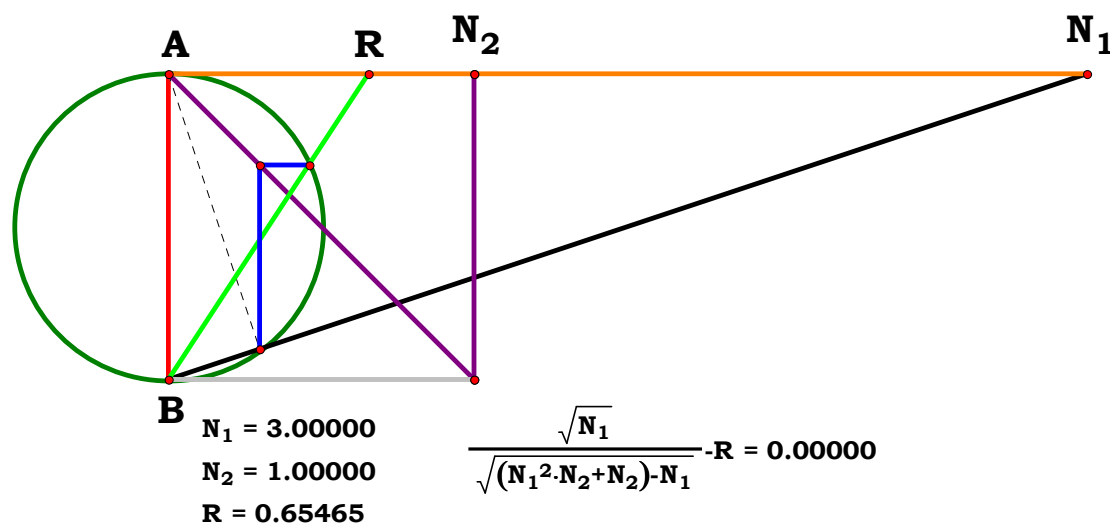
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_1}}{\sqrt{\mathbf{N}_1^2 \cdot \mathbf{N}_2 - \mathbf{N}_1 + \mathbf{N}_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{(\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)}} = 0$$

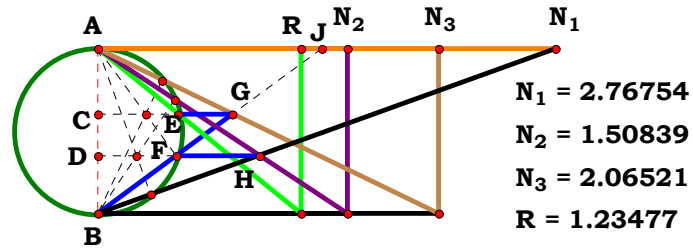
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y}} \cdot \sqrt{\mathbf{p}} \cdot \sqrt{\mathbf{q}}}{\sqrt{\mathbf{Z} \cdot \mathbf{Y}^2 - \mathbf{q} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{p}^2}} = \mathbf{0}$$





2SMT3R3



Unit. $AB := 1$ Given. $N_1 := 2.76754$ $N_2 := 1.50839$ $N_3 := 2.06521$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BD := \frac{N_2}{N_1 + N_2} \quad AD := \frac{N_1}{N_1 + N_2}$$

$$DF := \sqrt{BD \cdot AD} \quad AJ := \frac{DF}{BD} \cdot \frac{N_1 + N_2}{\sqrt{(N_1 + N_2)^2}}$$

$$AC := \frac{AJ}{AJ + N_3} \quad CE := \sqrt{AC \cdot (AB - AC)}$$

$$R := \frac{CE}{AC} \cdot \frac{N_3}{\sqrt{N_3^2}} \quad R = 1.234773$$

Definitions.

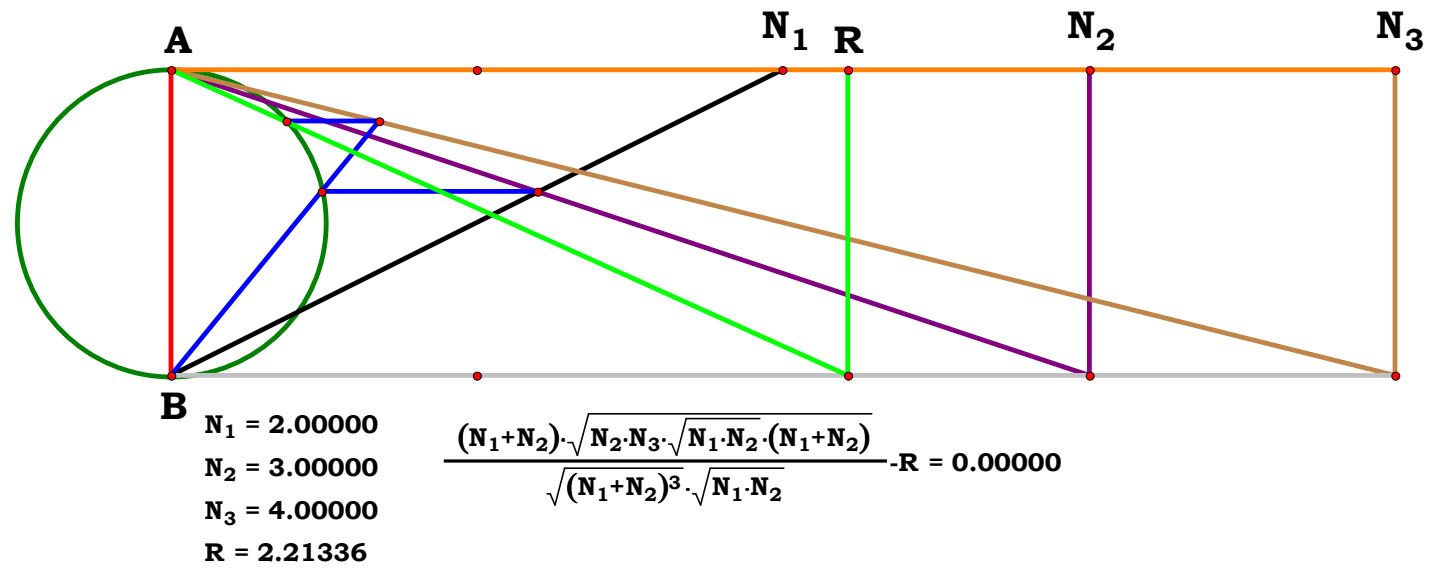
$$R - \frac{(N_1 + N_2) \cdot \sqrt{N_2 \cdot N_3} \cdot \sqrt{N_1 \cdot N_2} \cdot (N_1 + N_2)}{\sqrt{(N_1 + N_2)^3} \cdot \sqrt{N_1 \cdot N_2}} = 0$$

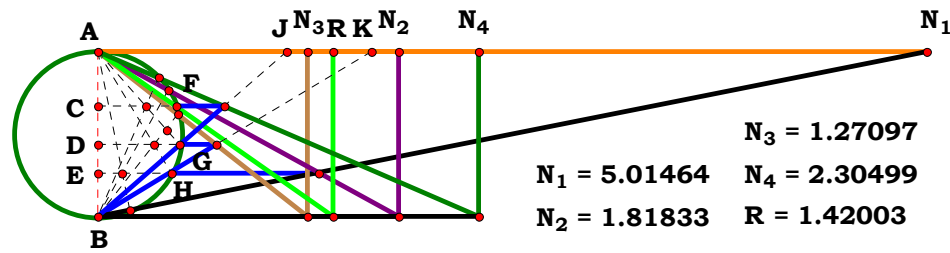
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u \cdot \sqrt{A + B}}{\frac{1}{\sqrt{N_u \cdot (A + B) \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C}}}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{o \cdot \sqrt{Y \cdot Z \cdot (X \cdot p + Y \cdot o)} \cdot \sqrt{X \cdot Y}}{\sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot Y} \cdot \sqrt{o \cdot q} \cdot \sqrt{o \cdot p}} = 0$$





Unit. $AB := 1$ Given. $N_1 := 5.01464$ $N_2 := 1.81833$
 $N_3 := 1.27097$ $N_4 := 2.30499$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$BE := \frac{N_2}{N_2 + N_1} \quad EH := \sqrt{BE \cdot (AB - BE)} \quad AK := \frac{EH}{BE}$$

$$BD := \frac{N_3}{AK + N_3} \quad DG := \sqrt{BD \cdot (AB - BD)} \quad AJ := \frac{DG}{BD}$$

$$BC := \frac{N_4}{AJ + N_4} \quad CF := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CF}{AB - BC} \quad R = 1.42003$$

Definitions.

$$R - \frac{\sqrt{N_2 \cdot N_3 \cdot N_4}}{(N_2 \cdot N_3 \cdot \sqrt{N_1 \cdot N_2})^{\frac{1}{4}}} = 0$$

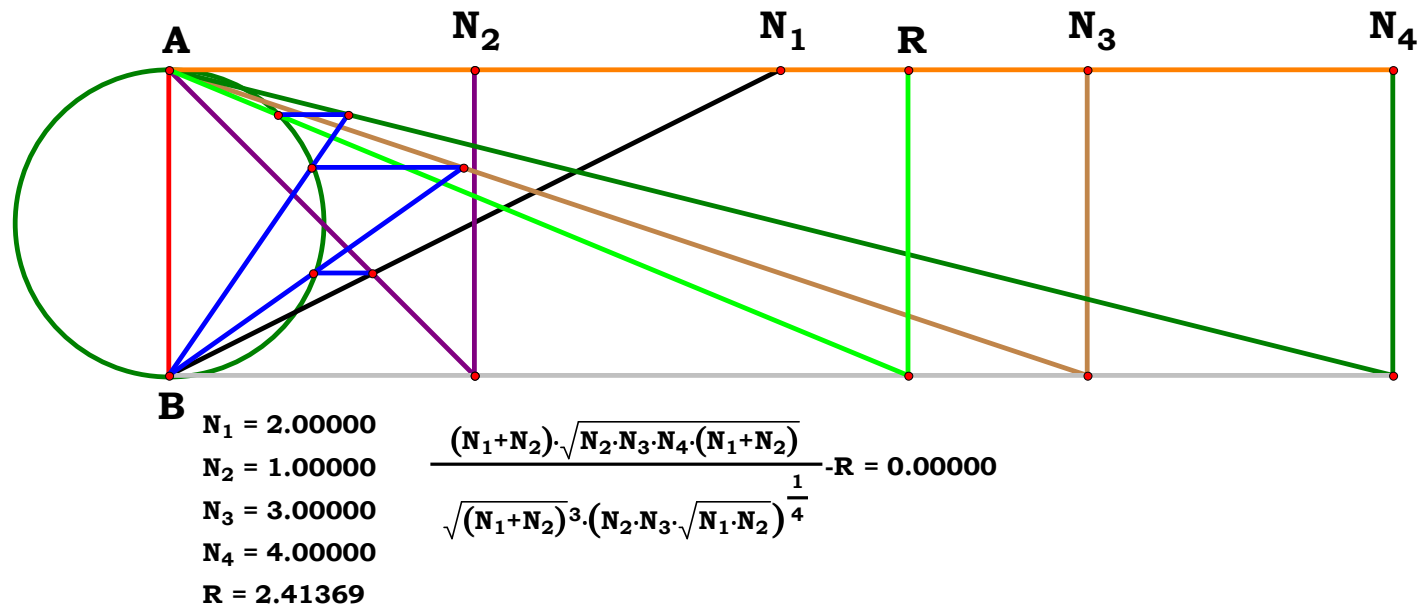
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

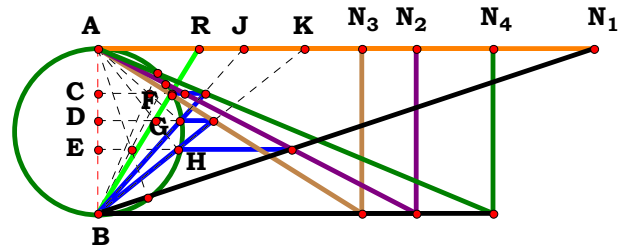
$$R - \frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{B \cdot C \cdot D}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{(n \cdot o \cdot \sqrt{m \cdot n})^{\frac{1}{4}} \cdot \sqrt{X \cdot Y \cdot Z}}{(X \cdot Y \cdot \sqrt{W \cdot X})^{\frac{1}{4}} \cdot \sqrt{n \cdot o \cdot p}} = 0$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





$N_1 = 3.00000$
 $N_2 = 1.92488$
 $N_3 = 1.60029$
 $N_4 = 2.39216$
 $R = 0.60764$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.92488$ $N_3 := 1.60029$ $N_4 := 2.39216$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$BE := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{BE \cdot (AB - BE)} \quad AK := \frac{EH}{BE} \quad BD := \frac{N_3}{AK + N_3}$$

$$DG := \sqrt{BD \cdot (AB - BD)} \quad AJ := \frac{DG}{BD} \quad BC := \frac{N_4}{AJ + N_4}$$

$$CF := \sqrt{BC \cdot (AB - BC)} \quad R := \frac{CF}{BC} \quad R = 0.607638$$

Definitions.

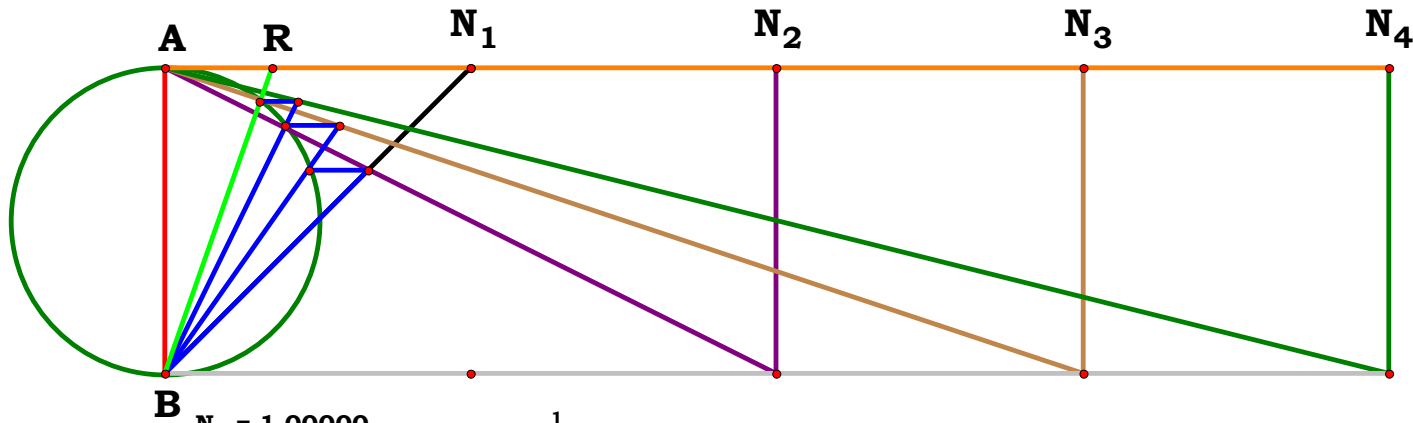
$$R - \frac{(N_1 \cdot N_2)^{\frac{1}{8}}}{(N_2 \cdot N_3 \cdot N_4^2)^{\frac{1}{4}}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(B \cdot C \cdot D^2)^{\frac{1}{4}}}{N_u^{\frac{3}{4}} \cdot (A \cdot B)^{\frac{1}{8}}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{(W \cdot X)^{\frac{1}{8}} \cdot (n \cdot o \cdot p^2)^{\frac{1}{4}}}{(m \cdot n)^{\frac{1}{8}} \cdot (X \cdot Y \cdot Z^2)^{\frac{1}{4}}} = 0$$

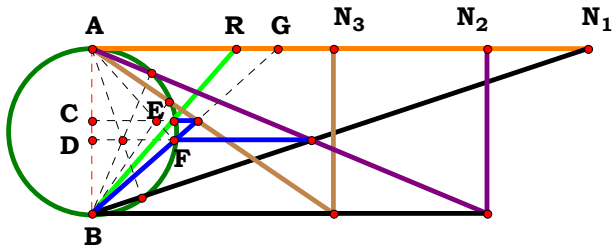


$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $R = 0.34839$

$$\frac{(N_1 \cdot N_2)^{\frac{1}{8}}}{(N_2 \cdot N_3 \cdot N_4^2)^{\frac{1}{4}}} - R = 0.00000$$



2SMT3R6



$N_1 = 3.00000$
 $N_2 = 2.38980$
 $N_3 = 1.46469$
 $R = 0.87462$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.38980$ $N_3 := 1.46469$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BD := \frac{N_2}{N_1 + N_2} \quad DF := \sqrt{BD \cdot (AB - BD)}$$

$$AG := \frac{DF}{BD} \quad BC := \frac{N_3}{AG + N_3}$$

$$CE := \sqrt{BC \cdot (AB - BC)} \quad R := \frac{CE}{BC}$$

$R = 0.874615$

Definitions.

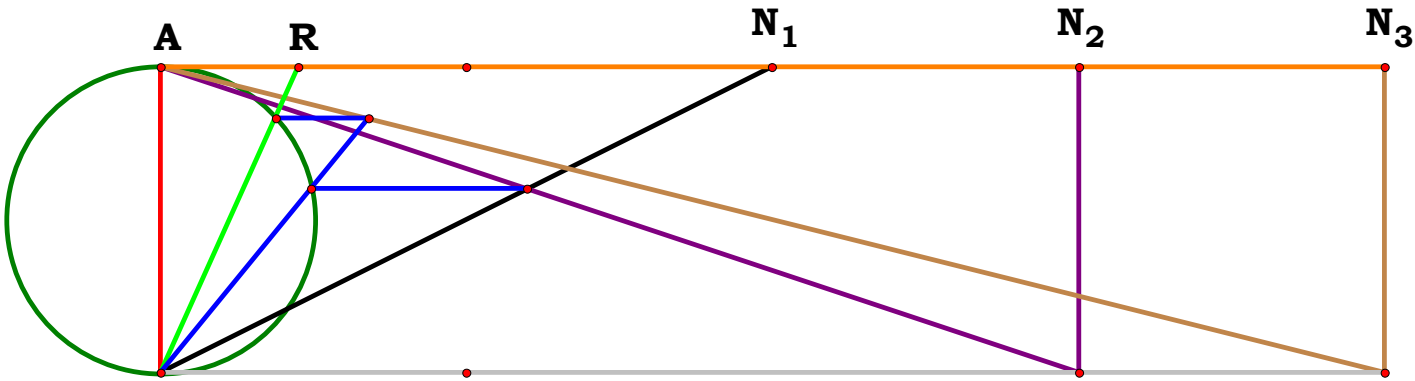
$$R - \frac{(N_1 \cdot N_2)^{\frac{1}{4}}}{(N_2 \cdot N_3)^{\frac{1}{2}}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B \cdot C}}{\sqrt{N_u} \cdot (A \cdot B)^{\frac{1}{4}}} = 0$$

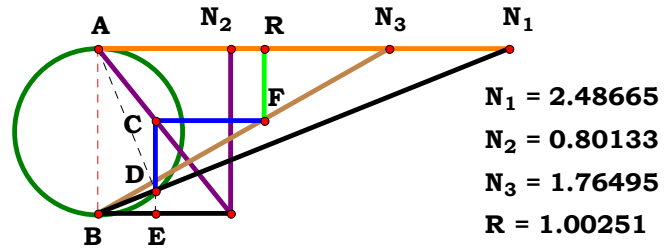
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(X \cdot Y)^{\frac{1}{4}} \cdot \sqrt{p \cdot q}}{\sqrt{Y \cdot Z} \cdot (o \cdot p)^{\frac{1}{4}}} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $R = 0.45180$

$\frac{(N_1 \cdot N_2)^{\frac{1}{4}}}{(N_2 \cdot N_3)^{\frac{1}{2}}} - R = 0.00000$



Unit. AB := 1 **Given.** $N_1 := 2.48665$ $N_2 := .80133$ $N_3 := 1.76495$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{BD} := \frac{\mathbf{AB}}{\mathbf{BN}_1}$$

$$\text{BE} := N_1 \cdot \frac{\text{BD}}{\text{BN}_1} \quad \text{CE} := \frac{N_2 - \text{BE}}{N_2}$$

$$\mathbf{R} := \mathbf{N}_3 \cdot \mathbf{CE} \quad \mathbf{R} = 1.002513$$

Definitions.

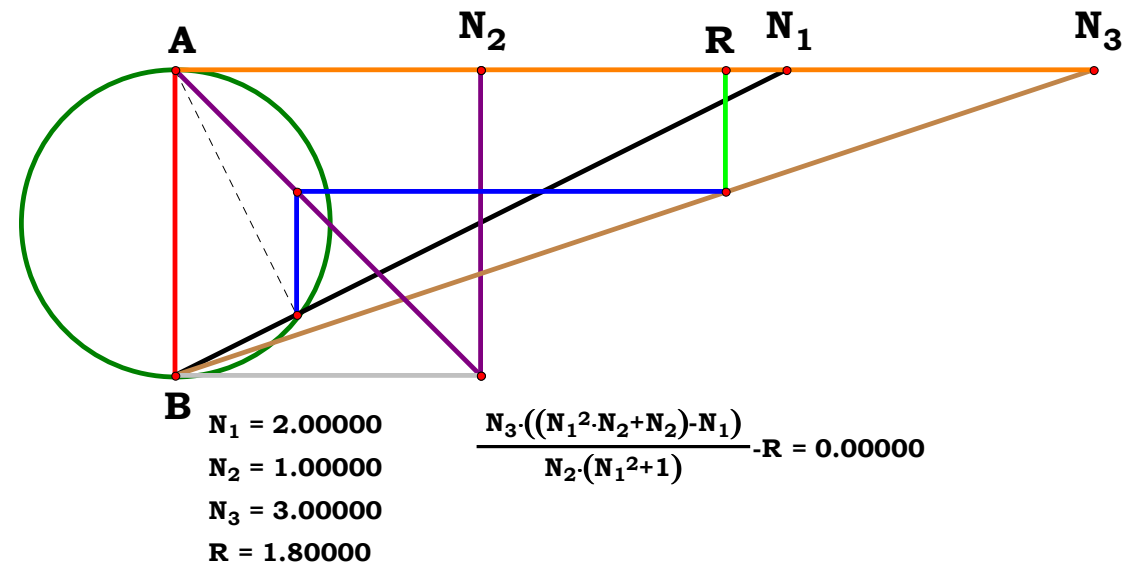
$$R - \frac{N_3 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)}{N_2 \cdot (N_1^2 + 1)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

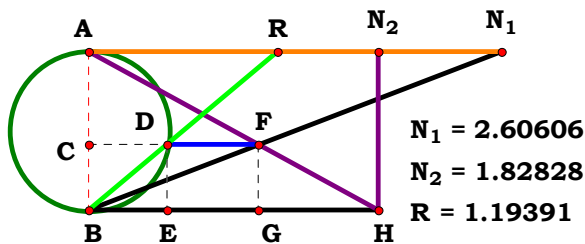
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)}{\mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{X}^2 - \mathbf{p} \cdot \mathbf{X} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o}^2)}{\mathbf{Y} \cdot \mathbf{q} \cdot (\mathbf{X}^2 + \mathbf{o}^2)} = \mathbf{0}$$



$$\frac{N_3 \cdot ((N_1^2 \cdot N_2 + N_2) - N_1)}{N_2 \cdot (N_1^2 + 1)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.60606$ $N_2 := 1.82828$

$$N_1 = 2.60606 \quad N_2 = 1.82828 \quad N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$FG := \frac{AB \cdot N_2}{N_1 + N_2} \quad CD := \sqrt{FG \cdot (1 - FG)}$$

$$R := \frac{CD \cdot AB}{FG} \quad R = 1.193908$$

Definitions.

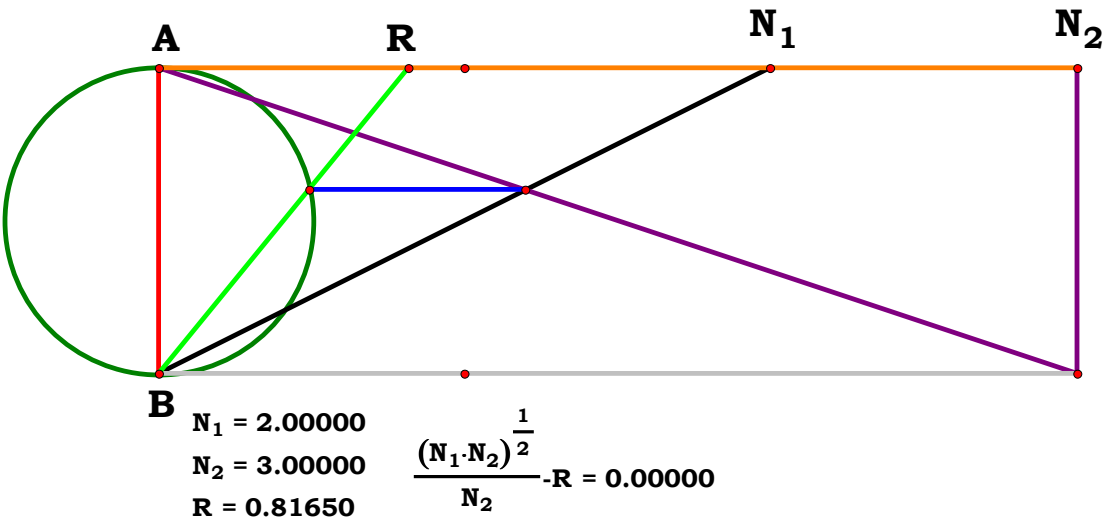
$$R - \frac{(N_1 \cdot N_2)^{\frac{1}{2}}}{N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

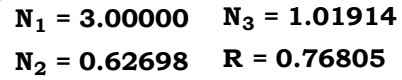
$$R - \frac{B}{\sqrt{A \cdot B}} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{q \cdot \sqrt{Y \cdot Z}}{Z \cdot \sqrt{p \cdot q}} = 0$$



$$N_1 = 2.00000 \quad N_2 = 3.00000 \quad R = 0.81650 \quad \frac{(N_1 \cdot N_2)^{\frac{1}{2}}}{N_2} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{N_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{N_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{N_3}$$

$$\mathbf{BD} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{DF} := \sqrt{\mathbf{BD} \cdot (\mathbf{AB} - \mathbf{BD})}$$

$$\mathbf{R} := \frac{\mathbf{CG}}{\mathbf{AB} - \mathbf{AC}} \quad \mathbf{R} = 0.768049$$

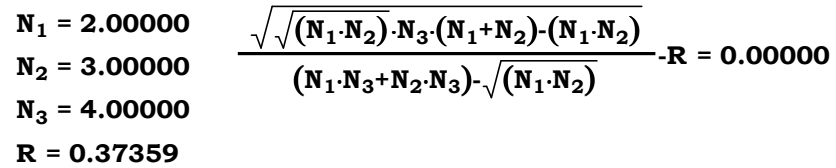
$$\mathbf{R} - \frac{\sqrt{\sqrt{\mathbf{N}_1 \cdot \mathbf{N}_2} \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2)} - \mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 \cdot \mathbf{N}_3 - \sqrt{\mathbf{N}_1 \cdot \mathbf{N}_2} + \mathbf{N}_2 \cdot \mathbf{N}_3} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}]}}{\left[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}} \right] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}} = 0$$

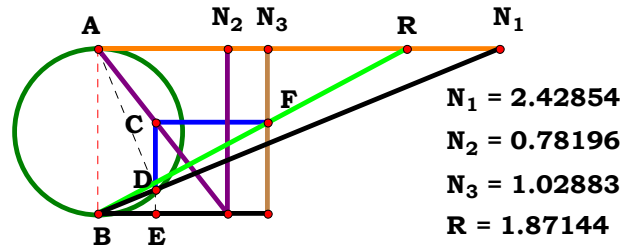
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Y}} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Y}} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}}}}{(\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - \mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Y}}) \cdot \sqrt{\mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}}}} = 0$$





2SMT3R10



$N_1 = 2.42854$
 $N_2 = 0.78196$
 $N_3 = 1.02883$
 $R = 1.87144$

Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := .78196$ $N_3 := 1.02883$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB}{BN_1}$$

$$BE := \frac{N_1 \cdot BD}{BN_1} \quad FN_3 := \frac{BE}{N_2}$$

$$R := \frac{N_3}{AB - FN_3} \quad R = 1.871437$$

Definitions.

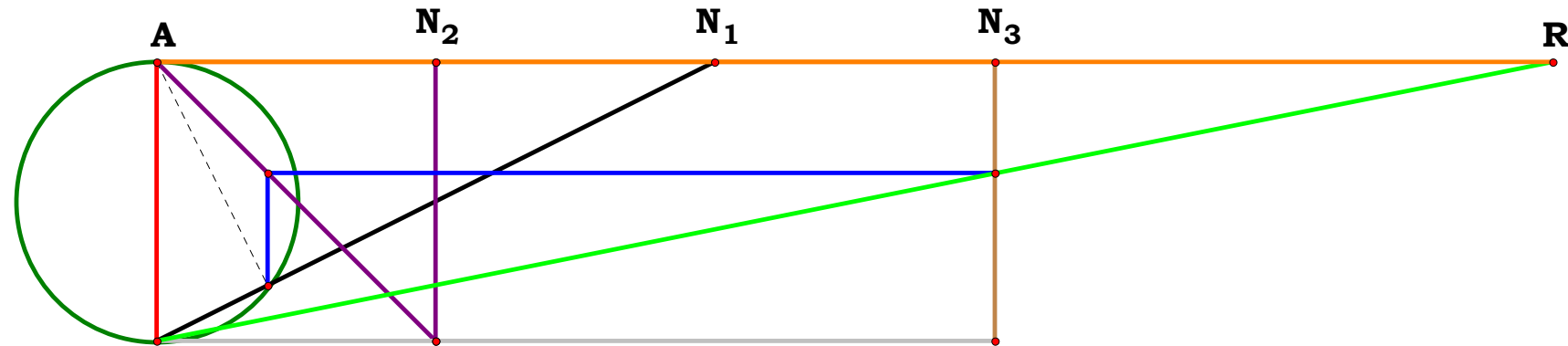
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_2 - N_1 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{C \cdot (A^2 - B \cdot A + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + o^2)}{q \cdot (Y \cdot X^2 - p \cdot X \cdot o + Y \cdot o^2)} = 0$$

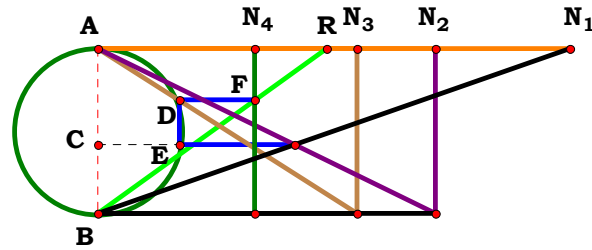


$N_1 = 2.00000$
 $N_2 = 1.00000$
 $N_3 = 3.00000$
 $R = 5.00000$

$$\frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{(N_1^2 \cdot N_2 + N_2) - N_1} - R = 0.00000$$



2SMT3R11



$N_1 = 2.85471$
 $N_2 = 2.04111$
 $N_3 = 1.57123$
 $N_4 = 0.94898$
 $R = 1.38294$

Unit. $AB := 1$ Given. $N_1 := 2.85471$ $N_2 := 2.04111$ $N_3 := 1.57123$ $N_4 := .94898$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$BC := \frac{N_2}{N_1 + N_2} \quad CE := \sqrt{BC \cdot (AB - BC)}$$

$$FN_4 := \frac{CE}{N_3} \quad R := \frac{N_4}{AB - FN_4}$$

$R = 1.382944$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_3 \cdot (N_1 + N_2) - \sqrt{N_1 \cdot N_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

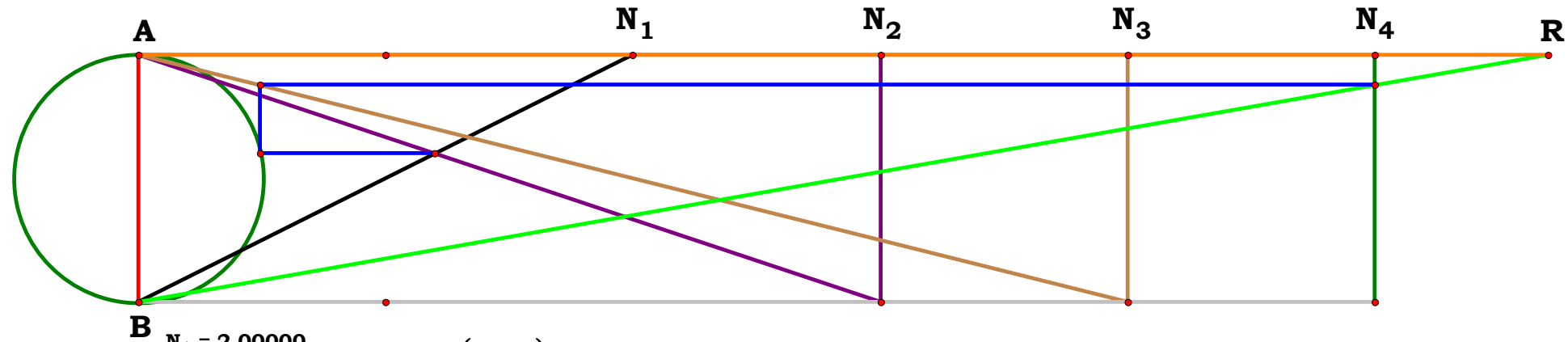
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot (A + B) \cdot \sqrt{A \cdot B}}{D \cdot [\sqrt{A \cdot B} \cdot N_u \cdot (A + B) - A \cdot B \cdot C]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot n + X \cdot m) \cdot \sqrt{m \cdot n}}{p \cdot [\sqrt{m \cdot n} \cdot Y \cdot (W \cdot n + X \cdot m) - m \cdot n \cdot o \cdot \sqrt{W \cdot X}]} = 0$$

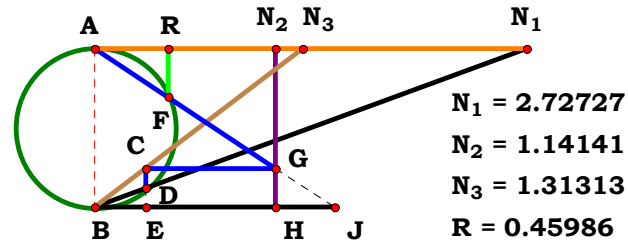


$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 5.69784$

$$\frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_3 \cdot (N_1 + N_2) - \sqrt{N_1 \cdot N_2}} - R = 0.00000$$



2SMT4R0



Unit. $AB := 1$ Given. $N_1 := 2.72727$ $N_2 := 1.14141$ $N_3 := 1.31313$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1} \quad BE := \frac{N_1 \cdot BD}{BN_1}$$

$$CE := \frac{AB \cdot BE}{N_3} \quad BJ := \frac{N_2 \cdot AB}{AB - CE} \quad AJ := \sqrt{AB^2 + BJ^2}$$

$$AF := \frac{AB^2}{AJ} \quad R := \frac{BJ \cdot AF}{AJ} \quad R = 0.459865$$

Definitions.

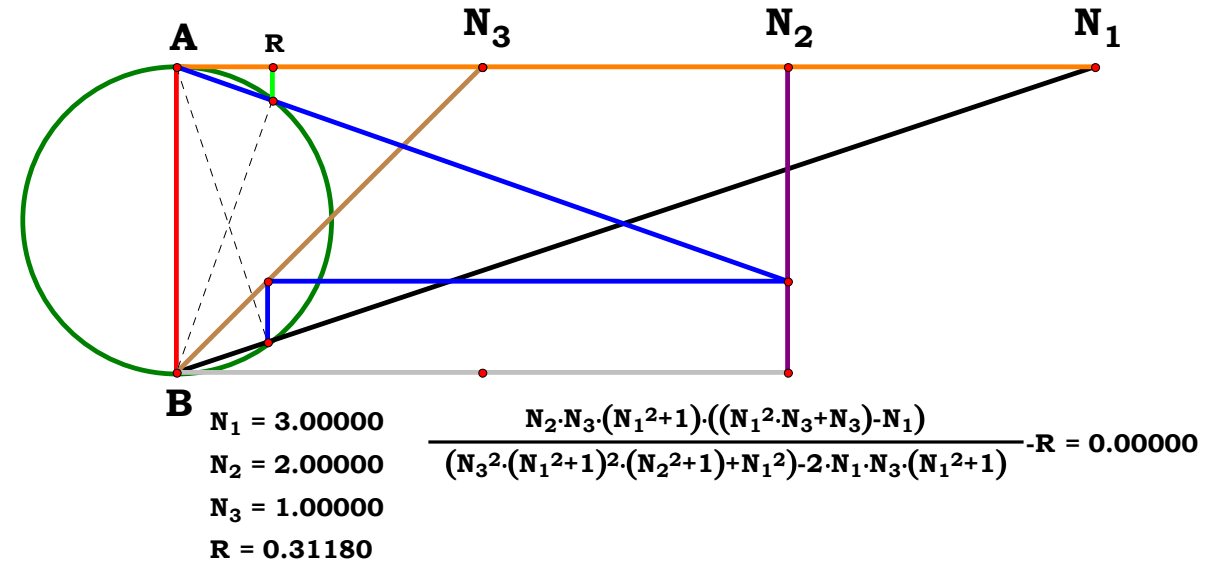
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1) \cdot (N_1^2 \cdot N_3 - N_1 + N_3)}{N_3^2 \cdot (N_1^2 + 1)^2 \cdot (N_2^2 + 1) - 2 \cdot N_1 \cdot N_3 \cdot (N_1^2 + 1) + N_1^2} = 0$$

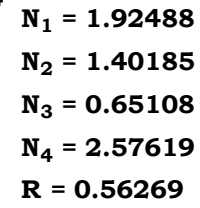
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot N_u \cdot (A^2 + N_u^2) \cdot (A^2 - C \cdot A + N_u^2)}{N_u^6 + N_u^4 \cdot (2 \cdot A^2 + B^2) + A \cdot N_u^2 \cdot (A^3 + 2 \cdot A \cdot B^2 - 2 \cdot C \cdot B^2) + A^2 \cdot B^2 \cdot (A - C)^2} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + o^2) \cdot (Z \cdot X^2 - q \cdot X \cdot o + Z \cdot o^2) \cdot p}{Y^2 \cdot Z^2 \cdot (X^2 + o^2)^2 + p^2 \cdot (Z \cdot X^2 - q \cdot X \cdot o + Z \cdot o^2)^2} = 0$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{CE} := N_3 \cdot \frac{N_2}{N_1} \quad \mathbf{BC} := \frac{\mathbf{AB}}{2} - \sqrt{\left(\frac{\mathbf{AB}}{2}\right)^2 - \mathbf{CE}^2}$$

$$\mathbf{BF} := \frac{\mathbf{CE}}{\mathbf{AB} - \mathbf{BC}} \quad \mathbf{R} := \frac{\mathbf{N}_4 \cdot \mathbf{BF}}{\mathbf{BF} + \mathbf{N}_4}$$

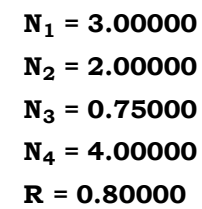
$$R - \frac{2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 \cdot \sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3^2} + N_1 \cdot (N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{2 \cdot X \cdot Y \cdot Z \cdot m}{Z \cdot \sqrt{W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2} + W \cdot Z \cdot n \cdot o + 2 \cdot X \cdot Y \cdot m \cdot p} = 0$$



$$\frac{2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 \cdot \sqrt{N_1^2 \cdot 4 \cdot N_2^2 \cdot N_3^2 + N_1 \cdot (N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_3)}} \cdot R = 0.00000$$



2SMT4R2

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BE := \frac{AB^2}{BN_1}$$

$$BF := \frac{N_1 \cdot BE}{BN_1} \quad DF := \frac{AB \cdot BF}{N_3}$$

$$BJ := \frac{N_2 \cdot AB}{1 - DF} \quad R := \frac{AB^2}{BJ}$$

$$R = 0.377161$$

Definitions.

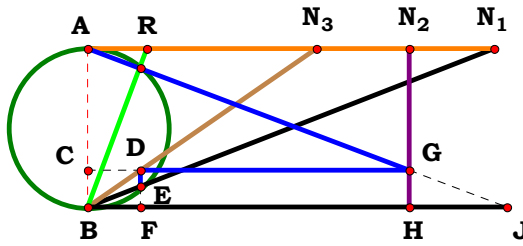
$$R - \frac{N_1^2 \cdot N_3 + N_3 - N_1}{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot (A^2 - C \cdot A + N_u^2)}{A^2 \cdot N_u + N_u^3} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{p \cdot (Z \cdot X^2 - q \cdot X \cdot o + Z \cdot o^2)}{Y \cdot Z \cdot (X^2 + o^2)} = 0$$

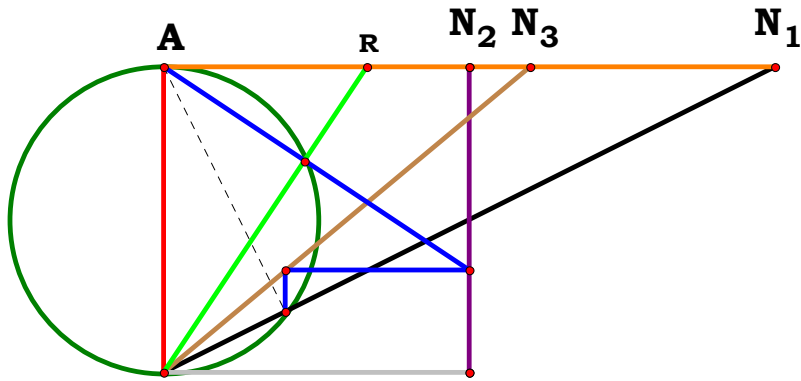


$$\begin{aligned} N_1 &= 2.56566 \\ N_2 &= 2.03030 \\ N_3 &= 1.44444 \\ R &= 0.37716 \end{aligned}$$

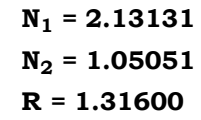
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.56566 \quad N_2 := 2.03030 \quad N_3 := 1.44444$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 1.00000 \\ N_3 &= 1.20000 \\ R &= 0.66667 \end{aligned} \quad \frac{(N_1^2 \cdot N_3 + N_3) - N_1}{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3} \cdot R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{BE} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{BE}}{\mathbf{BN}_1} \quad \mathbf{DF} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{\mathbf{N}_2}$$

$$\mathbf{EG} := \sqrt{\mathbf{DF} \cdot (\mathbf{AB} - \mathbf{DF})} \quad \mathbf{R} := \frac{\mathbf{EG} \cdot \mathbf{AB}}{\mathbf{DF}}$$

Definitions.

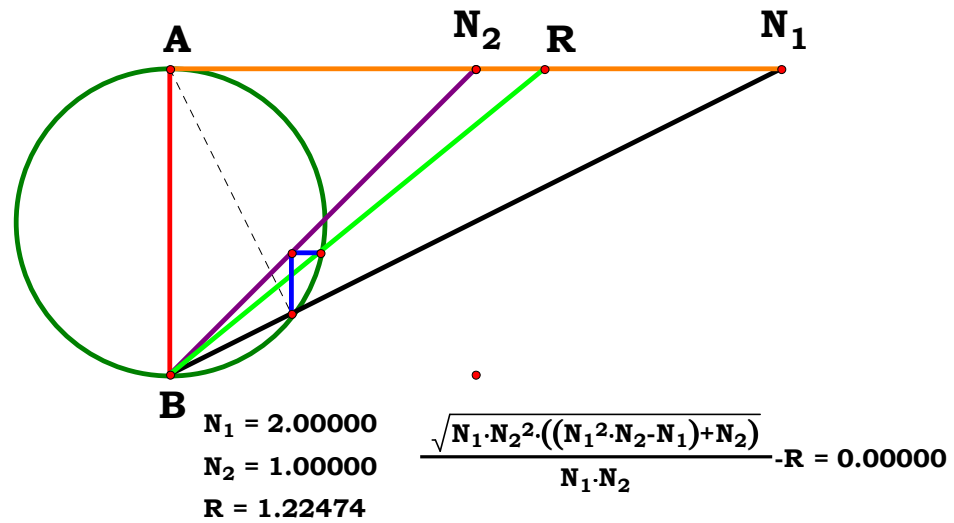
$$R - \frac{\sqrt{N_1 \cdot N_2^2 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)}}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A \cdot B \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{A^3 \cdot B^3}} = 0$$

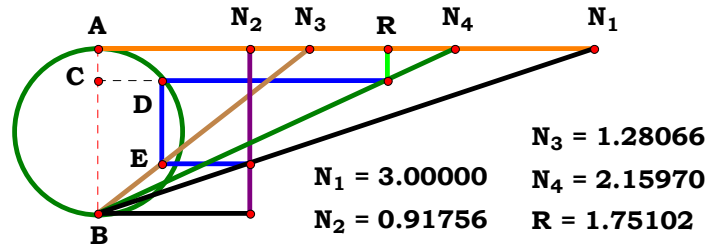
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y}^3 \cdot \mathbf{Z}^3 - \mathbf{q} \cdot \mathbf{Y}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z}^3 \cdot \mathbf{p}^2}}{\mathbf{Y} \cdot \mathbf{Z} \cdot \sqrt{\mathbf{p} \cdot \mathbf{q}}} = 0$$





2SMT4R5



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := .91756$ $N_3 := 1.28066$ $N_4 := 2.15970$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$CD := N_3 \cdot \frac{N_2}{N_1} \quad AC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2}$$

$$R := N_4 \cdot (AB - AC) \quad R = 1.751012$$

Definitions.

$$R - \frac{N_4 \cdot \left(\sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3^2} + N_1 \right)}{2 \cdot N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

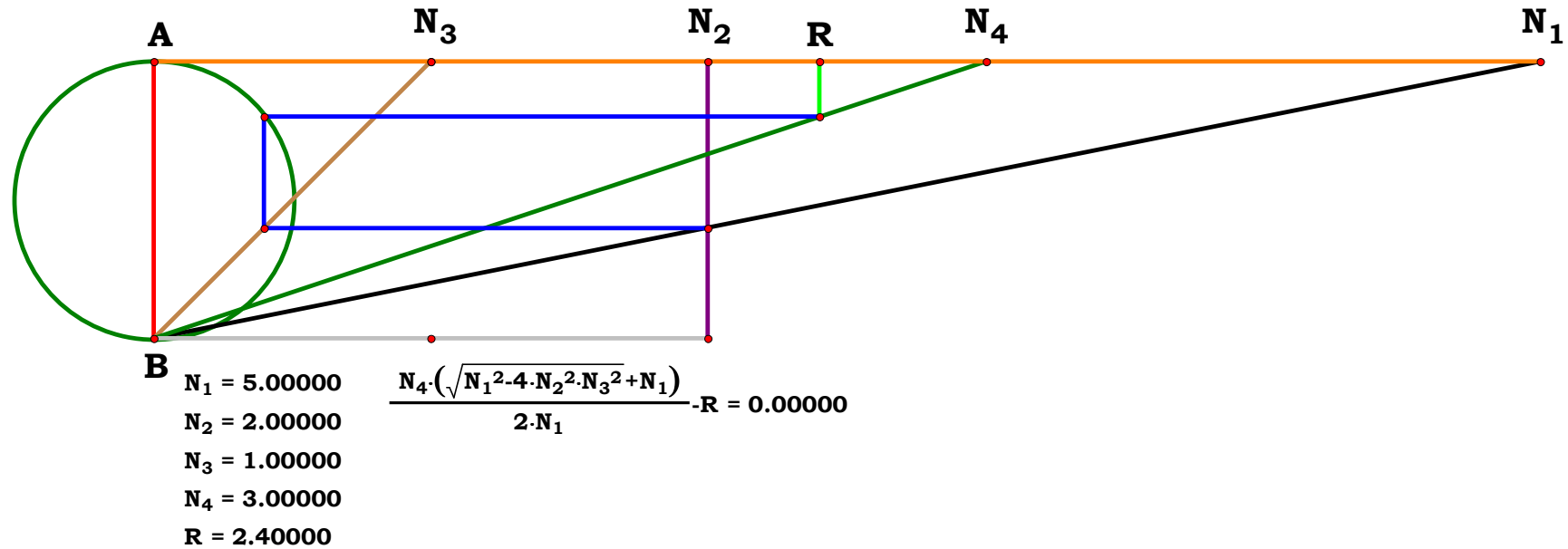
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u}{2 \cdot D \cdot B \cdot C} = 0$$

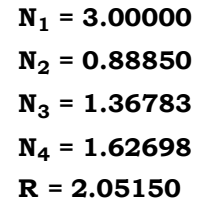
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left(\sqrt{W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2} + W \cdot n \cdot o \right)}{2 \cdot W \cdot p \cdot n \cdot o} = 0$$



2SMT4R6


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$
$$\mathbf{CE} := \mathbf{N}_3 \cdot \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{AC} := \frac{\mathbf{AB}}{2} - \sqrt{\left(\frac{\mathbf{AB}}{2}\right)^2 - \mathbf{CE}^2}$$

$$R := \frac{N_4}{AB - AC} \quad R = 2.051499$$

$$R - \frac{2 \cdot N_1 \cdot N_4}{\sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3^2 + N_1}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

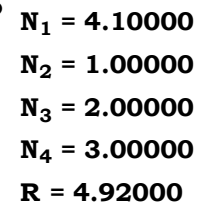
$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot B \cdot C}{D \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u \right)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot W \cdot Z \cdot n \cdot o}{p \cdot \left(\sqrt{W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2} + W \cdot n \cdot o \right)} = 0$$



$$\frac{2 \cdot N_1 \cdot N_4}{\sqrt{N_1^2 + 4 \cdot N_2^2 + N_3^2 + N_1}} \cdot R = 0.00000$$

2SMT4R7

$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{BD} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{BE} := \frac{\mathbf{N}_1 \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{CE} := \frac{\mathbf{AB} \cdot \mathbf{BE}}{\mathbf{N}_3}$$

$$R := \frac{N_2 \cdot AB}{CE} \quad R = 3.289856$$

$$R - \frac{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

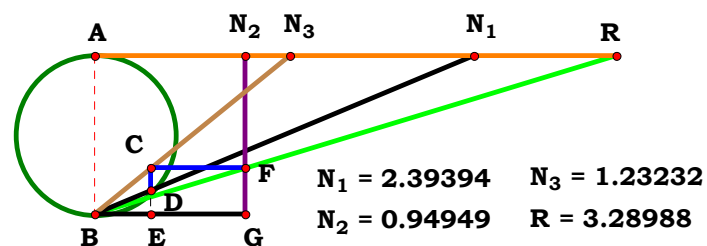
$$N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0$$

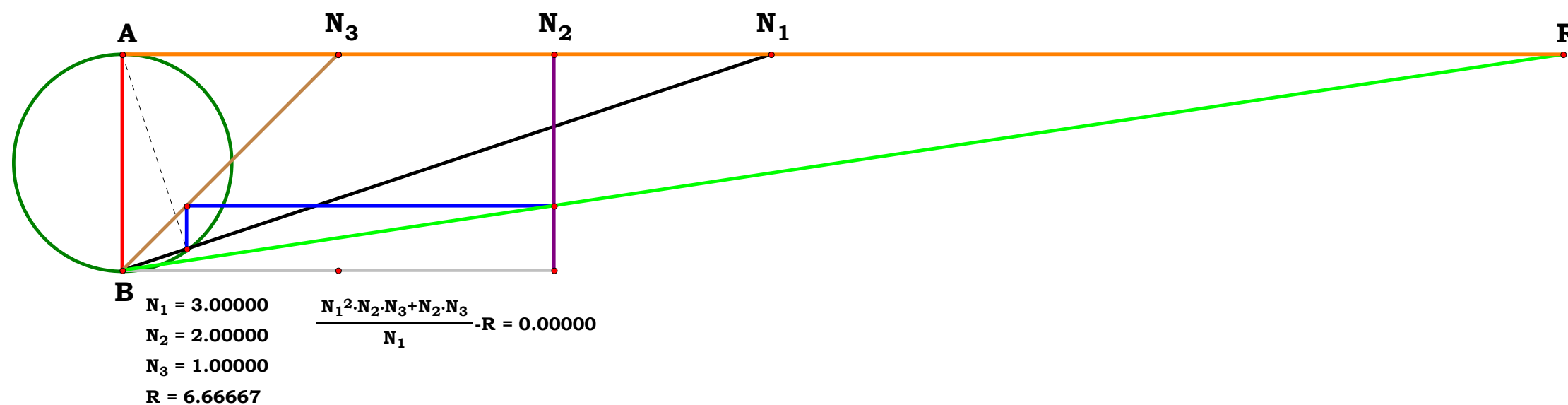
$$\mathbf{N}_3 - \frac{\mathbf{z}}{\mathbf{q}} = \mathbf{0}$$

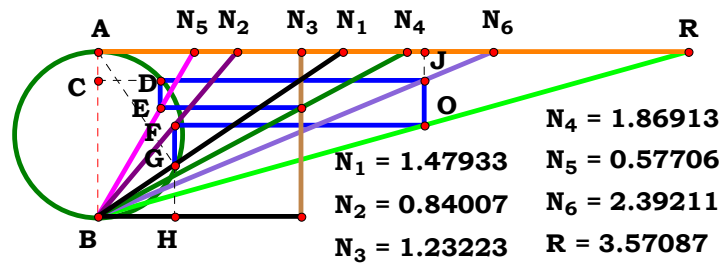
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{X}^2 + \mathbf{o}^2)}{\mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$

Unit. AB := 1 Given. $N_1 := 2.39394$ $N_2 := .94949$ $N_3 := 1.23232$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$





Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{AB}{BN_1} \quad BH := N_1 \cdot \frac{BG}{BN_1}$$

$$FH := \frac{BH}{N_2} \quad CD := \frac{N_3}{N_4} \cdot N_5 \quad AC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2}$$

$$AJ := N_6 \cdot (AB - AC) \quad R := \frac{AJ}{FH} \quad R = 3.570887$$

Definitions.

$$R - \frac{N_2 \cdot N_6 \cdot (N_1^2 + 1) \cdot (\sqrt{N_4^2 - 4 \cdot N_3^2 \cdot N_5^2} + N_4)}{2 \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\left[\sqrt{N_u^2 \cdot (C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot E \cdot N_u \right] \cdot (A^2 + N_u^2)}{(2 \cdot A \cdot B \cdot C \cdot E \cdot F)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Z \cdot (\sqrt{X^2 \cdot m^2 \cdot o^2 - 4 \cdot W^2 \cdot Y^2 \cdot n^2} + X \cdot m \cdot o) \cdot (U^2 + k^2)}{2 \cdot U \cdot X \cdot k \cdot l \cdot p \cdot m \cdot o} = 0$$

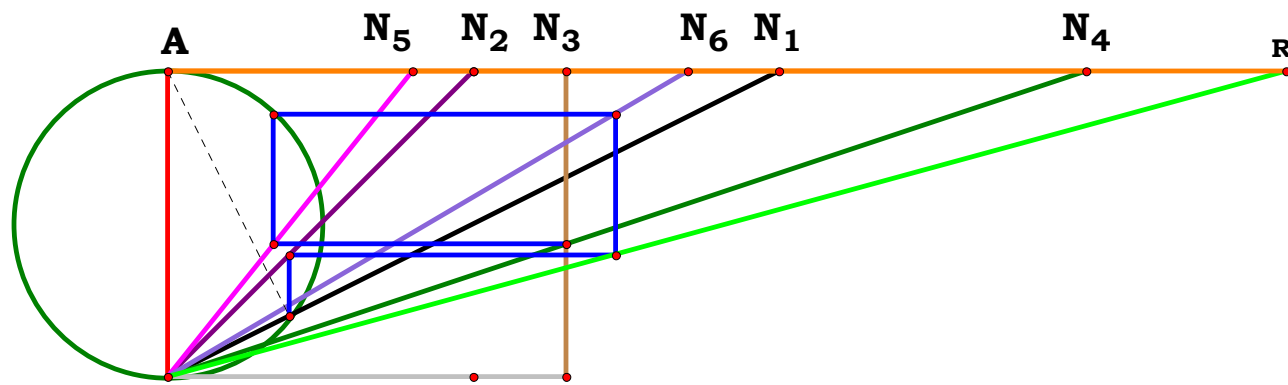
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.47933 \quad N_2 := .84007 \quad N_3 := 1.23223$$

$$N_4 := 1.86913 \quad N_5 := .57706 \quad N_6 := 2.39211$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



$$N_1 = 2.00000$$

$$N_2 = 1.00000$$

$$N_3 = 1.30000$$

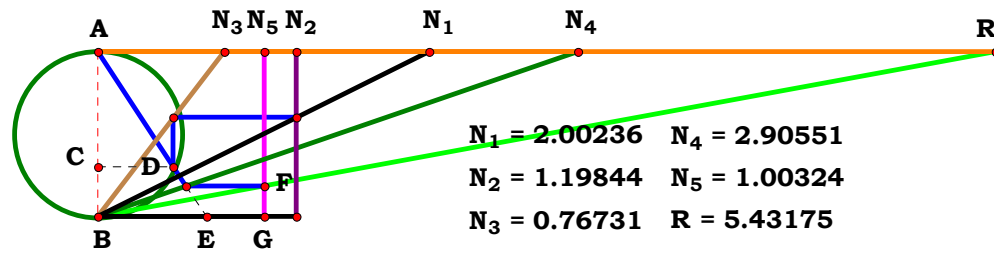
$$N_4 = 3.00000$$

$$N_5 = 0.80000$$

$$N_6 = 1.70000$$

$$R = 3.65631$$

$$\frac{N_2 \cdot N_6 \cdot (N_1^2 + 1) \cdot (\sqrt{N_4^2 - 4 \cdot N_3^2 \cdot N_5^2} + N_4)}{2 \cdot N_1 \cdot N_4} - R = 0.00000$$



$$\begin{aligned} N_1 &= 2.00236 & N_4 &= 2.90551 \\ N_2 &= 1.19844 & N_5 &= 1.00324 \\ N_3 &= 0.76731 & R &= 5.43175 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.00236 \quad N_2 := 1.19844 \quad N_3 := .76731$$

$$N_4 := 2.90551 \quad N_5 := 1.00324$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$CD := N_3 \cdot \frac{N_2}{N_1} \quad BC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2}$$

$$BE := \frac{CD}{AB - BC} \quad FG := \frac{BE}{BE + N_4}$$

$$R := \frac{N_5}{FG} \quad R = 5.431813$$

Definitions.

$$R - \frac{N_5 \cdot (N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_3) + N_4 \cdot N_5 \cdot \sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3^2}}{2 \cdot N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

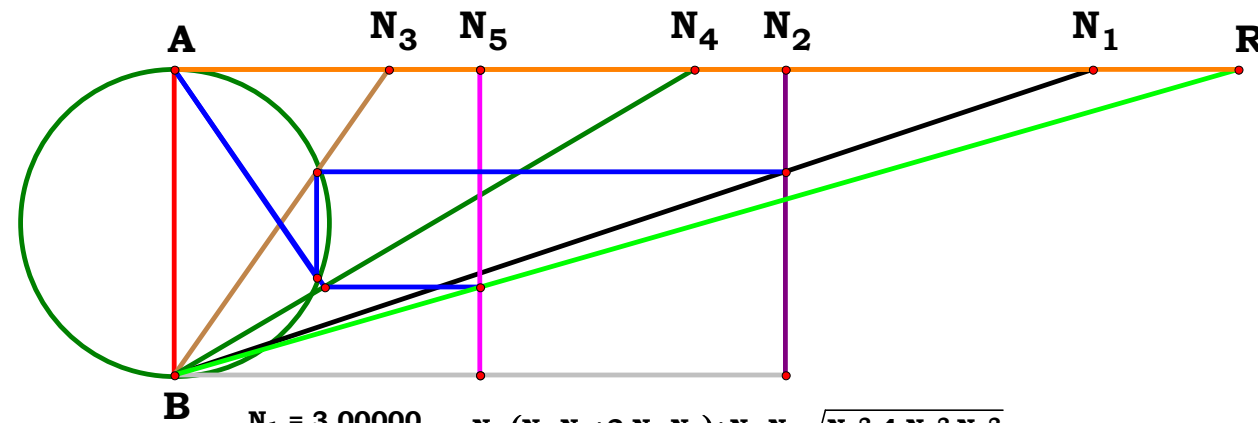
$$R - \frac{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)}{2 \cdot A \cdot D \cdot E} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0$$

$$N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left(Y \cdot \sqrt{V^2 \cdot m^2 \cdot n^2 - 4 \cdot W^2 \cdot X^2 \cdot 1^2} + V \cdot Y \cdot m \cdot n + 2 \cdot W \cdot X \cdot 1 \cdot o \right)}{2 \cdot W \cdot X \cdot 1 \cdot o \cdot p} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.70000 \\ N_4 &= 1.70000 \\ N_5 &= 1.00000 \\ R &= 3.47534 \end{aligned}$$

$$\frac{N_5 \cdot (N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_3) + N_4 \cdot N_5 \cdot \sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3^2}}{2 \cdot N_2 \cdot N_3} - R = 0.00000$$

2SMT4R11

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BE} := \frac{\mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{R} := \frac{\mathbf{N}_3}{\mathbf{FG}} \quad \mathbf{R} = 1.714092$$

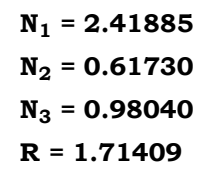
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1} = 0$$

$$N_3 - \frac{N_u}{C} = 0$$

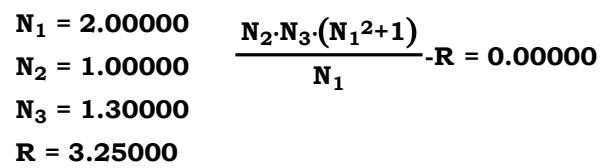
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}} = 0$$

$$\mathbf{N}_3 - \frac{\mathbf{z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{X}^2 + \mathbf{o}^2)}{\mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$

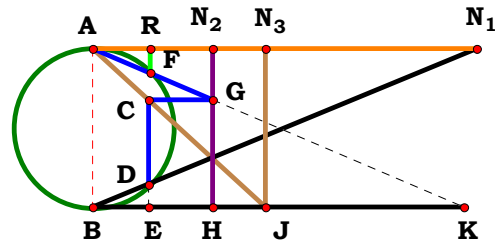

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$





2SMT5R0



$N_1 = 2.42424$
 $N_2 = 0.75758$
 $N_3 = 1.09091$
 $R = 0.36089$

Unit. $AB := 1$ Given. $N_1 := 2.42424$ $N_2 := .75758$ $N_3 := 1.09091$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1}$$

$$BE := \frac{N_1 \cdot BD}{BN_1} \quad CE := \frac{AB \cdot (N_3 - BE)}{N_3}$$

$$BK := \frac{N_2 \cdot AB}{AB - CE} \quad AK := \sqrt{BK^2 + AB^2}$$

$$AF := \frac{AB^2}{AK} \quad R := \frac{BK \cdot AF}{AK}$$

$R = 0.360884$

Definitions.

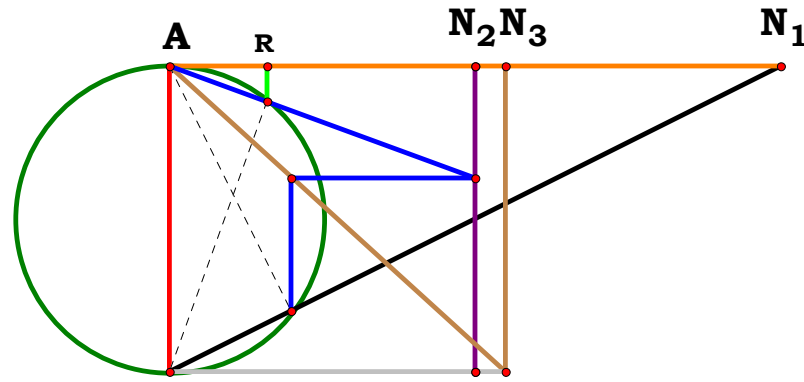
$$R - \frac{N_1 \cdot N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 + N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2)}{N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2} = 0$$

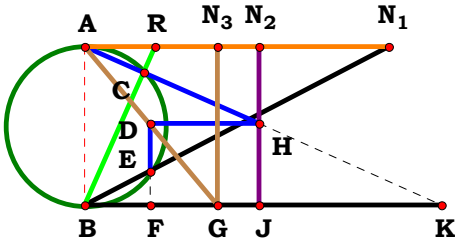
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot o \cdot p \cdot q \cdot (X^2 + o^2)}{Z^2 \cdot Y^2 \cdot (X^2 + o^2)^2 + X^2 \cdot o^2 \cdot p^2 \cdot q^2} = 0$$



$N_1 = 2.00000$
 $N_2 = 1.00000$
 $N_3 = 1.10000$
 $R = 0.32117$

$$\frac{N_1 \cdot N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 + N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)^2} \cdot R = 0.00000$$



$N_1 = 1.91919$
 $N_2 = 1.10101$
 $N_3 = 0.83838$
 $R = 0.44395$

Unit. $AB := 1$ Given. $N_1 := 1.91919$ $N_2 := 1.10101$ $N_3 := .83838$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BE := \frac{AB^2}{BN_1}$$

$$BF := \frac{N_1 \cdot BE}{BN_1} \quad DF := \frac{AB \cdot (N_3 - BF)}{N_3}$$

$$BK := \frac{N_2 \cdot AB}{AB - DF} \quad R := \frac{AB^2}{BK}$$

$R = 0.443951$

Definitions.

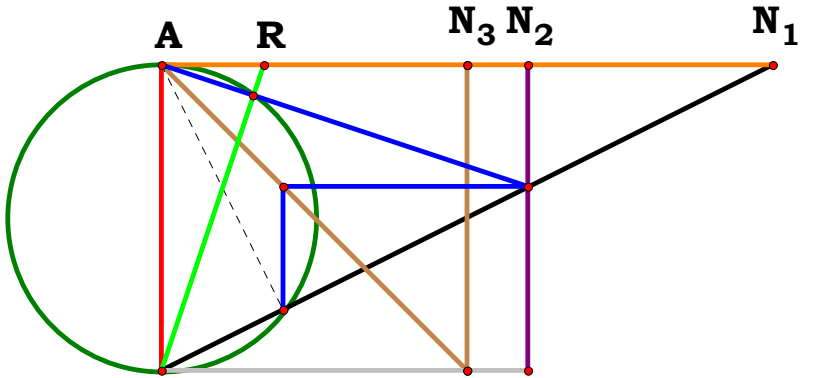
$$R - \frac{N_1}{N_2 \cdot N_3 \cdot (N_1^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot B \cdot C}{A^2 \cdot N_u + N_u^3} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot o \cdot p \cdot q}{Y \cdot Z \cdot (X^2 + o^2)} = 0$$

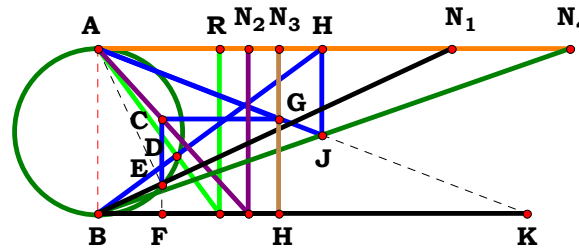


$N_1 = 2.00000$
 $N_2 = 1.20000$
 $N_3 = 1.00000$
 $R = 0.33333$

$$\frac{N_1}{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3} - R = 0.00000$$



2SMT5R2



$N_1 = 2.13797$
 $N_2 = 0.90787$
 $N_3 = 1.09663$
 $N_4 = 2.85708$
 $R = 0.73548$

Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := .90787$ $N_3 := 1.09663$

$N_4 := 2.85708$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{AB}{BN_1}$$

$$BF := N_1 \cdot \frac{BE}{BN_1} \quad GN_3 := \frac{BF}{N_2}$$

$$BK := \frac{N_3}{GN_3} \quad AH := \frac{BK \cdot N_4}{BK + N_4}$$

$$R := \frac{AB^2}{AH} \quad R = 0.735478$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1) + N_1 \cdot N_4}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1)} = 0$$

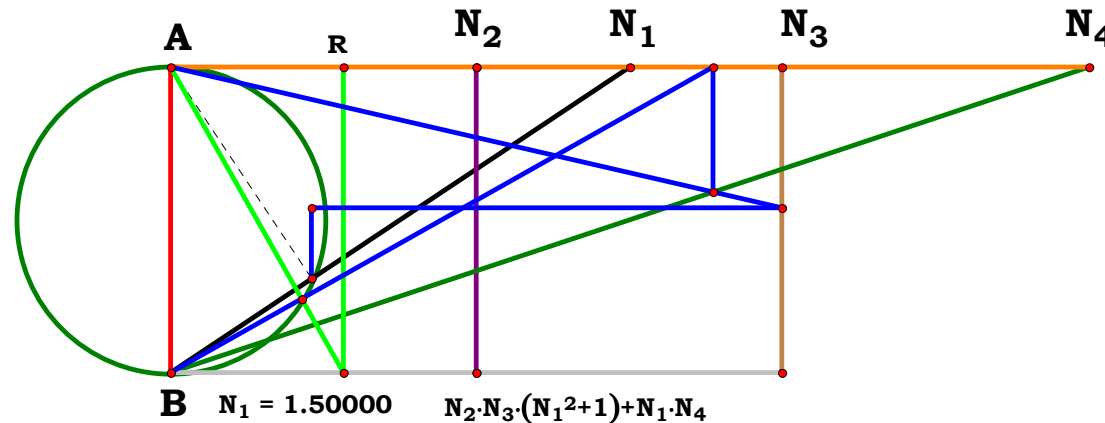
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot A^2 + B \cdot C \cdot A + D \cdot N_u^2}{A^2 \cdot N_u + N_u^3} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

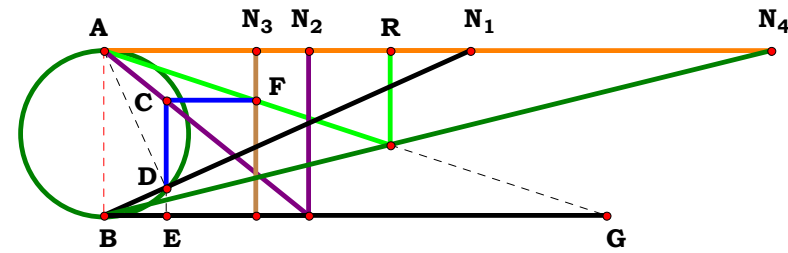
$$R - \frac{X \cdot Y \cdot p \cdot (W^2 + m^2) + Z \cdot n \cdot o \cdot W \cdot m}{X \cdot Y \cdot Z \cdot (W^2 + m^2)} = 0$$



$N_1 = 1.50000$
 $N_2 = 1.00000$
 $N_3 = 2.00000$
 $N_4 = 3.00000$
 $R = 0.56410$

$$\frac{N_2 \cdot N_3 \cdot (N_1^2 + 1) + N_1 \cdot N_4}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1)} - R = 0.00000$$

2SMT5R3



N₁ = 2.21545
N₂ = 1.23719
N₃ = 0.92228
N₄ = 4.03874
R = 1.73542

Unit. AB := 1 Given. $N_1 := 2.21545$ $N_2 := 1.23719$ $N_3 := .92228$
 $N_4 := 4.03874$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{AB}}{\mathbf{BN}_1} \quad \mathbf{BE} := \mathbf{N}_1 \cdot \frac{\mathbf{BD}}{\mathbf{BN}_1}$$

$$\mathbf{FN_3} := \frac{\mathbf{BE}}{\mathbf{N_2}} \quad \mathbf{BG} := \frac{\mathbf{N_3}}{\mathbf{FN_3}} \quad \mathbf{R} := \frac{\mathbf{BG \cdot N_4}}{\mathbf{BG + N_4}}$$

R = 1.735415

Definitions.

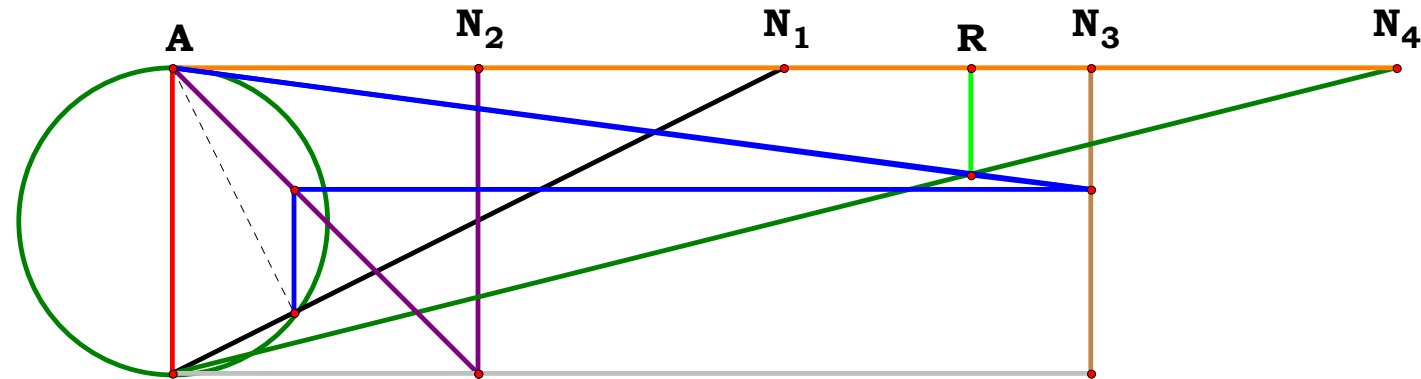
$$R - \frac{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot (N_1^2 + 1) + N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

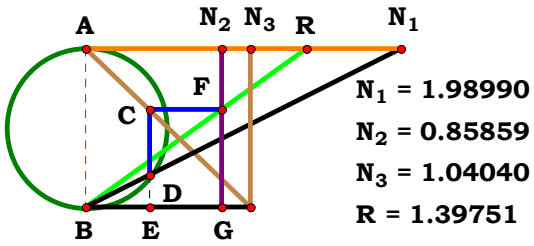
$$\mathbf{R} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{A}^2 \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W}^2 + \mathbf{m}^2)}{\mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W}^2 + \mathbf{m}^2) + \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o} \cdot \mathbf{W} \cdot \mathbf{m}} = 0$$



N₁ = 2.00000	$\frac{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot (N_1^2 + 1) + N_1 \cdot N_4} \cdot R = 0.00000$
N₂ = 1.00000	
N₃ = 3.00000	
N₄ = 4.00000	
R = 2.60870	



Unit. $AB := 1$ Given. $N_1 := 1.98990$ $N_2 := .85859$ $N_3 := 1.04040$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1} \quad BE := \frac{N_1 \cdot BD}{BN_1}$$

$$CE := \frac{AB \cdot (N_3 - BE)}{N_3} \quad R := \frac{N_2 \cdot AB}{CE} \quad R = 1.397522$$

Definitions.

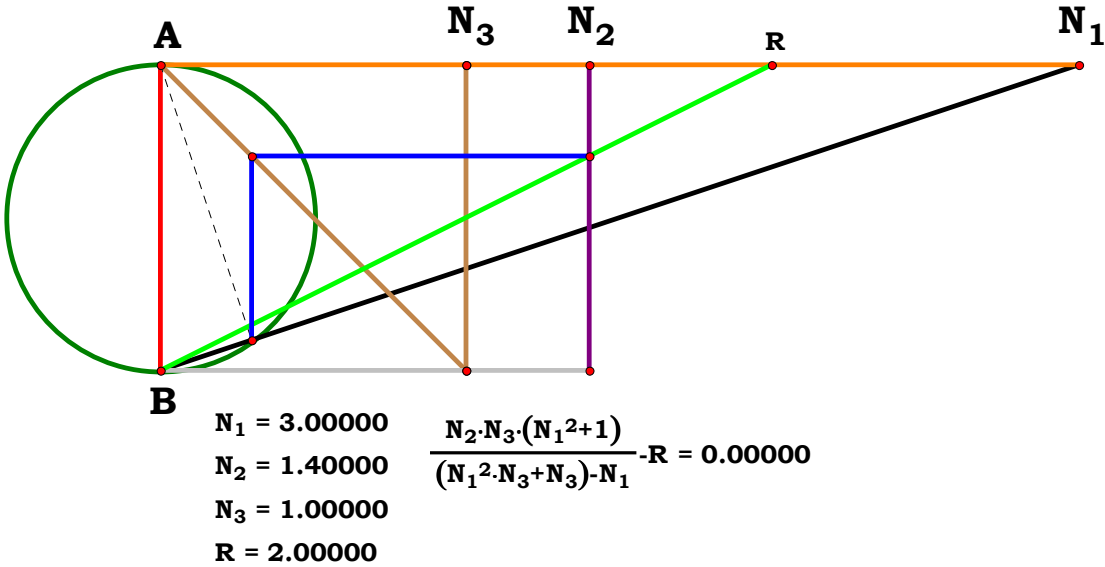
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_3 + N_3 - N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot C + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + o^2)}{Z \cdot p \cdot X^2 - p \cdot q \cdot X \cdot o + Z \cdot p \cdot o^2} = 0$$





2SMT5R5

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1}$$

$$BE := \frac{N_1 \cdot BD}{BN_1} \quad CE := \frac{AB \cdot (N_3 - BE)}{N_3}$$

$$R := \frac{N_2 \cdot AB}{AB - CE} \quad R = 2.600868$$

Definitions.

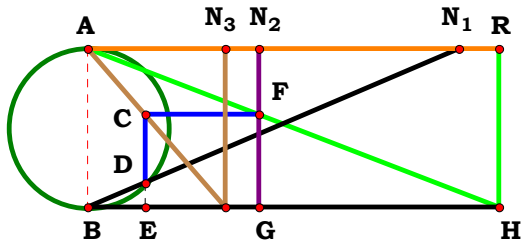
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{A \cdot B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + o^2)}{X \cdot o \cdot p \cdot q} = 0$$

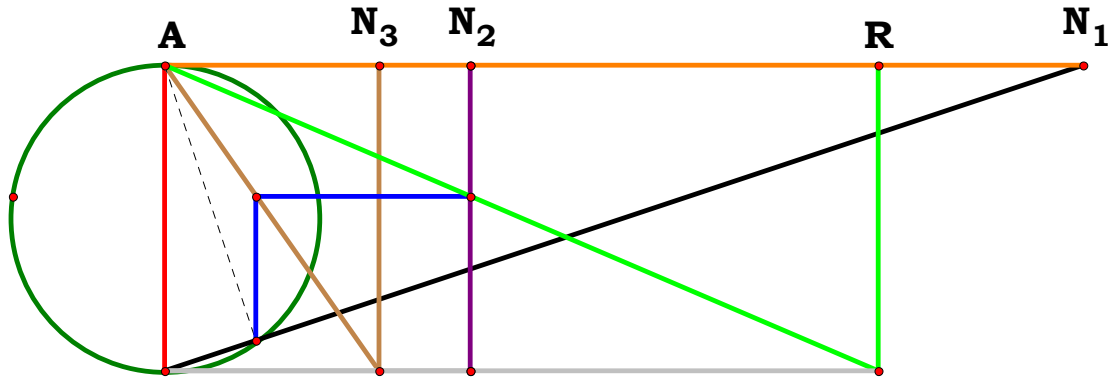


$N_1 = 2.34343$
 $N_2 = 1.08081$
 $N_3 = 0.86869$
 $R = 2.60086$

Unit. $AB := 1$ Given. $N_1 := 2.34343$ $N_2 := 1.08081$ $N_3 := .86869$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

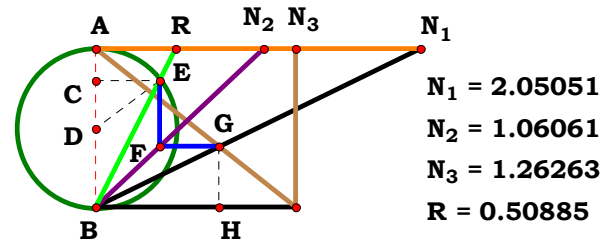
$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 0.70000$
 $R = 2.33333$
 $\frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1} \cdot R = 0.00000$



2SMT6R0



Unit. $AB := 1$ Given. $N_1 := 2.05051$ $N_2 := 1.06061$ $N_3 := 1.26263$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$GH := \frac{AB \cdot N_3}{N_3 + N_1} \quad CE := \frac{N_2 \cdot GH}{AB} \quad DE := \frac{AB}{2}$$

$$CD := \sqrt{DE^2 - CE^2} \quad BC := DE + CD \quad R := \frac{CE \cdot AB}{BC}$$

$R = 0.508856$

Definitions.

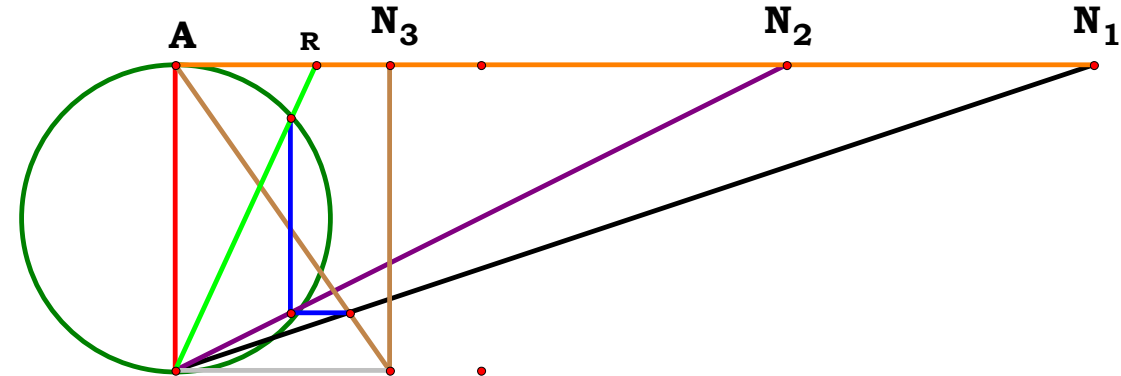
$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_3)}{\left[N_1 + N_3 + \sqrt{N_1^2 + N_3 \cdot (2 \cdot N_1 - 4 \cdot N_2^2 \cdot N_3 + N_3)} \right] \cdot (N_1 + N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

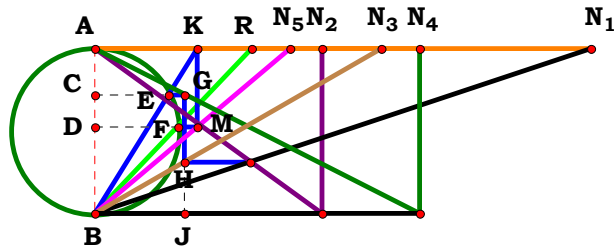
$$R - \frac{2 \cdot A \cdot N_u^2}{\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u]} + B \cdot N_u \cdot (A + C)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot o}{\sqrt{Z^2 \cdot o^2 \cdot (p^2 - 4 \cdot Y^2)} + X \cdot p^2 \cdot q \cdot (X \cdot q + 2 \cdot Z \cdot o) + X \cdot p \cdot q + Z \cdot o \cdot p} = 0$$



$$\frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_3)}{(N_1 + N_3 + \sqrt{N_1^2 + N_3 \cdot ((2 \cdot N_1 - 4 \cdot N_2^2 \cdot N_3) + N_3)}) \cdot (N_1 + N_3)} - R = 0.00000$$



$N_1 = 3.00000$
 $N_2 = 1.37279$
 $N_3 = 1.73589$
 $N_4 = 1.96599$
 $N_5 = 1.17758$
 $R = 0.94950$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.37279$ $N_3 := 1.73589$

$N_4 := 1.96599$ $N_5 := 1.17758$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$HJ := \frac{N_2}{N_1 + N_2} \quad BJ := N_3 \cdot HJ$$

$$BC := AB - \frac{BJ}{N_4} \quad CE := \sqrt{BC \cdot (AB - BC)}$$

$$AK := \frac{CE}{BC} \quad AD := AB - \frac{AK}{N_5}$$

$$DF := \sqrt{AD \cdot (AB - AD)} \quad R := \frac{DF}{AB - AD}$$

$$R = 0.9495$$

Definitions.

$$R - \frac{\sqrt{N_4 \cdot (N_1 + N_2)} \cdot \left[N_5 \cdot \sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)} - N_2 \cdot N_3 \right] \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}{\sqrt{N_4 \cdot (N_1 + N_2)} \cdot \sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}} = 0$$

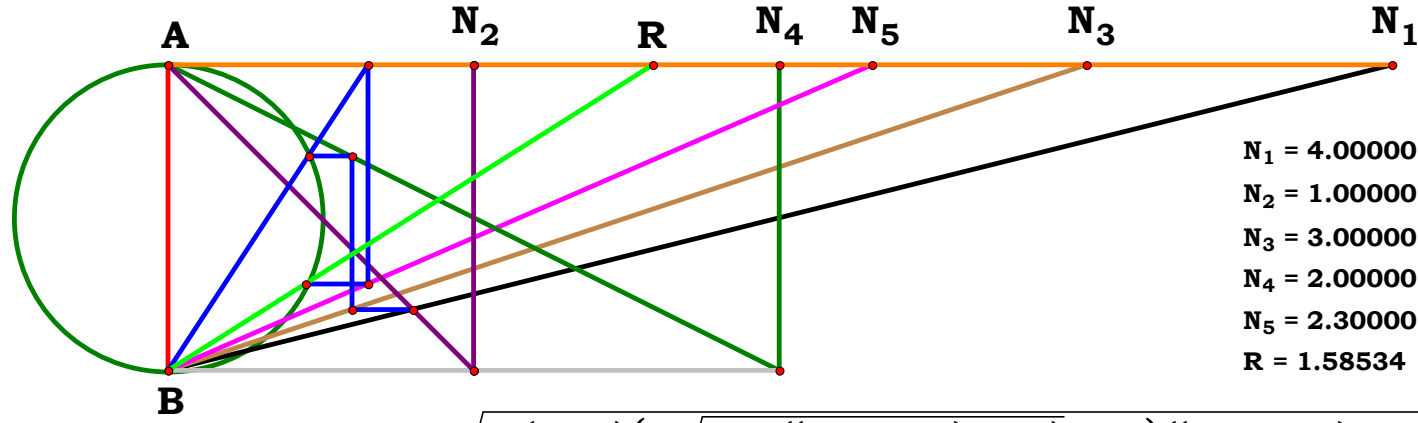
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A + B) \cdot \left[N_u \cdot \sqrt{A \cdot (C - D) + B \cdot C} - E \cdot \sqrt{A \cdot D} \right] \cdot [A \cdot (C - D) + B \cdot C]} \cdot \sqrt{A \cdot B \cdot D}}{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A + B} \cdot \sqrt{A \cdot (C - D) + B \cdot C}} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{1 \cdot o} \cdot \sqrt{1 \cdot m \cdot o} \cdot \sqrt{Y \cdot [Z \cdot \sqrt{W \cdot X \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot 1 \cdot o + W \cdot Y \cdot 1 \cdot n)} - W \cdot X \cdot p \cdot \sqrt{1 \cdot o}]} \cdot (V \cdot m + W \cdot 1) \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot 1 \cdot o + W \cdot Y \cdot 1 \cdot n)}{1 \cdot o \cdot \sqrt{V \cdot Y \cdot m + W \cdot Y \cdot 1} \cdot \sqrt{m \cdot p \cdot \sqrt{1 \cdot o} \cdot \sqrt{W \cdot X \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot 1 \cdot o + W \cdot Y \cdot 1 \cdot n)}}} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

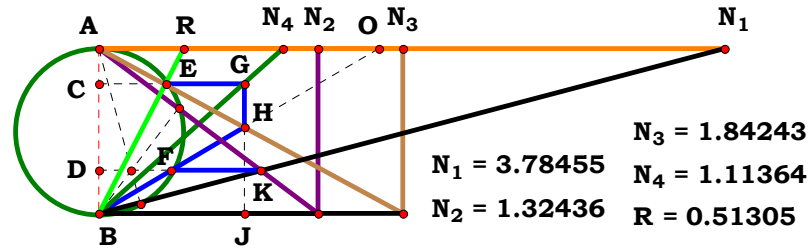


$N_1 = 4.00000$
 $N_2 = 1.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $N_5 = 2.30000$
 $R = 1.58534$

$$\frac{\sqrt{N_4 \cdot (N_1 + N_2)} \cdot (N_5 \cdot \sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)} - N_2 \cdot N_3) \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{\sqrt{N_4 \cdot (N_1 + N_2)} \cdot \sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}} - R = 0.00000$$



2SMT6R2



Unit. $AB := 1$ Given. $N_1 := 3.78455$ $N_2 := 1.32436$ $N_3 := 1.84243$ $N_4 := 1.11364$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$BD := \frac{N_2}{N_1 + N_2} \quad DF := \sqrt{BD \cdot (AB - BD)}$$

$$AO := \frac{DF}{BD} \quad BJ := \frac{AO \cdot N_3}{AO + N_3}$$

$$BC := \frac{BJ}{N_4} \quad CE := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CE}{BC} \quad R = 0.513051$$

Definitions.

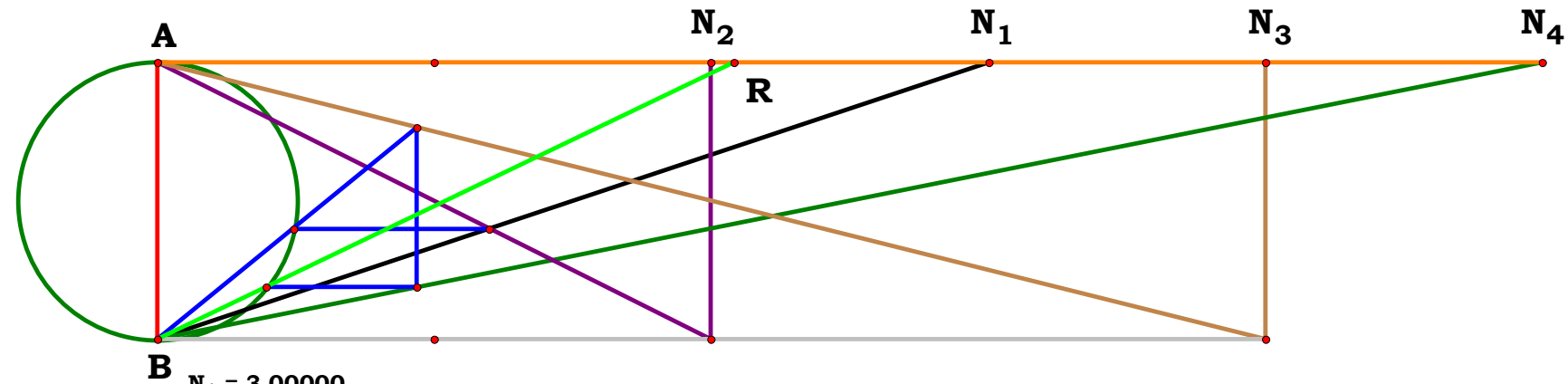
$$R - \frac{\sqrt{N_2} \cdot \sqrt{N_3^2 \cdot N_4 \cdot \sqrt{N_1 \cdot N_2 - N_1 \cdot N_3 \cdot (N_3 - N_4)}}}{N_3 \cdot \sqrt{N_1 \cdot N_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot N_u + \sqrt{A \cdot B \cdot (C - D)}}}{\sqrt{B} \cdot \sqrt{A \cdot D}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{X} \cdot \sqrt{Y \cdot (Y \cdot Z \cdot m \cdot \sqrt{W \cdot X - W \cdot Y \cdot p \cdot \sqrt{m \cdot n} + W \cdot Z \cdot o \cdot \sqrt{m \cdot n}}) \cdot \sqrt{m \cdot n}}}{Y \cdot \sqrt{n} \cdot \sqrt{W \cdot X} \cdot \sqrt{m \cdot p} \cdot \sqrt{m \cdot n}} = 0$$

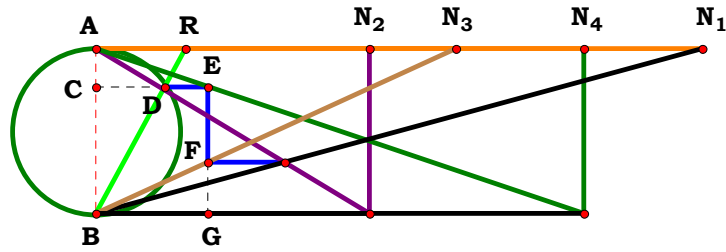


$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 2.08146$

$$\frac{\sqrt{N_2} \cdot \sqrt{(N_3^2 \cdot N_4 \cdot \sqrt{N_1 \cdot N_2 - N_1 \cdot N_3^2}) + N_1 \cdot N_3 \cdot N_4}}{N_3 \cdot \sqrt{N_1 \cdot N_2}} - R = 0.00000$$



2SMT6R3



$N_1 = 3.66832$
 $N_2 = 1.65368$
 $N_3 = 2.18144$
 $N_4 = 2.95394$
 $R = 0.54571$

Unit. $AB := 1$ Given. $N_1 := 3.66832$ $N_2 := 1.65368$ $N_3 := 2.18144$ $N_4 := 2.95394$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$FG := \frac{N_2}{N_1 + N_2} \quad BG := N_3 \cdot FG$$

$$BC := AB - \frac{BG}{N_4} \quad CD := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CD}{BC} \quad R = 0.545712$$

Definitions.

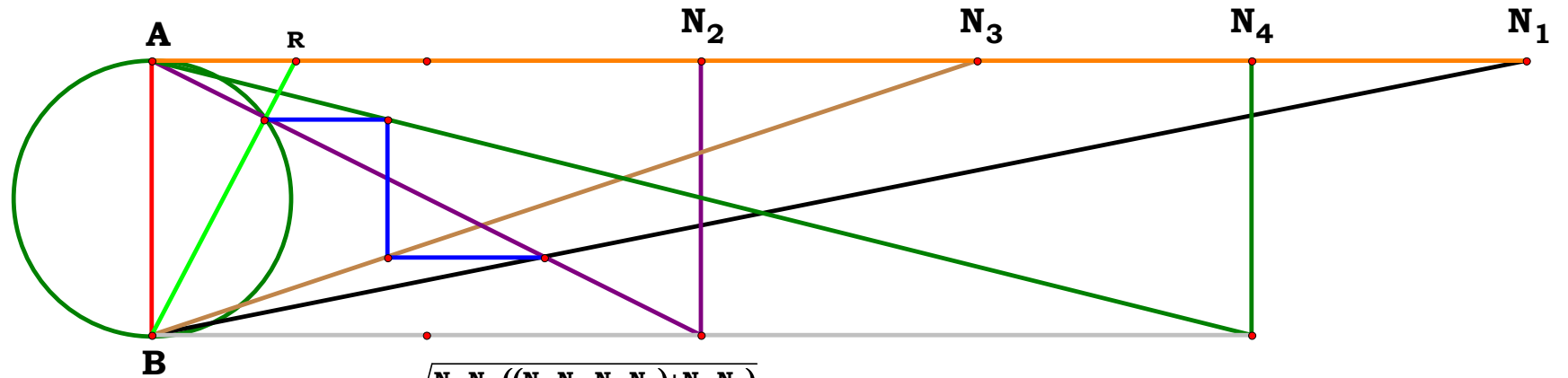
$$R - \frac{\sqrt{N_2 \cdot N_3 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}}{N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot D}{\sqrt{A \cdot D} \cdot \sqrt{A \cdot C - A \cdot D + B \cdot C}} = 0$$

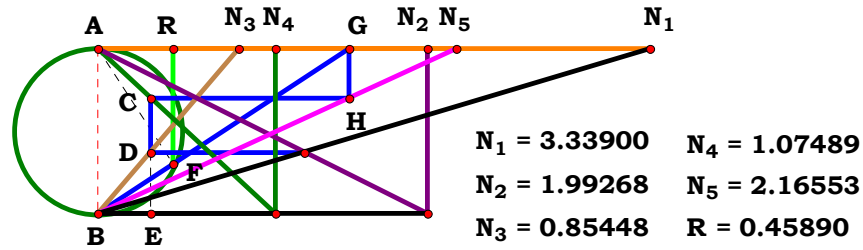
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{m \cdot p \cdot \sqrt{X \cdot Y \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)}}{\sqrt{m \cdot p \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)}} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $R = 0.52223$

$$\frac{\sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}}{(N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3.33900$ $N_2 := 1.99268$ $N_3 := .85448$
 $N_4 := 1.07489$ $N_5 := 2.16553$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$DE := \frac{N_2}{N_1 + N_2} \quad BE := N_3 \cdot DE$$

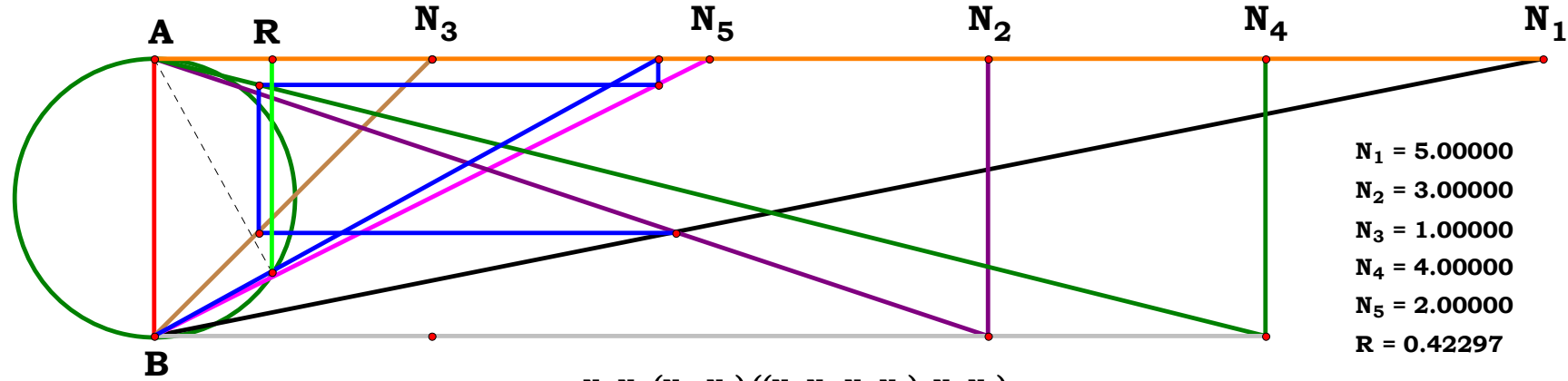
$$GH := \frac{BE}{N_4} \quad AG := N_5 \cdot (AB - GH)$$

$$BG := \sqrt{AB^2 + AG^2} \quad BF := \frac{AB}{BG}$$

$$R := \frac{AG \cdot BF}{BG} \quad R = 0.458903$$

Definitions.

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_4^2 \cdot (N_1 + N_2)^2 + (N_2 \cdot N_3 \cdot N_5)^2 + N_4 \cdot N_5^2 \cdot (N_1 + N_2) \cdot ((N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) + N_2 \cdot N_4)} \cdot R = 0.00000$$

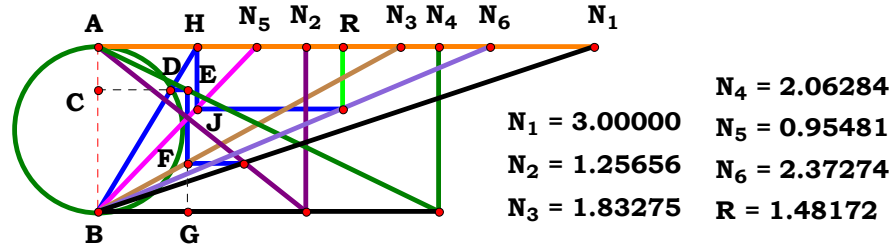
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}{N_4^2 \cdot (N_1 + N_2)^2 + (N_2 \cdot N_3 \cdot N_5)^2 + N_4 \cdot N_5^2 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3 + N_2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{C \cdot E \cdot N_u \cdot (A + B) \cdot (A \cdot C - A \cdot D + B \cdot C)}{C^2 \cdot (E^2 + N_u^2) \cdot (A + B)^2 - 2 \cdot A \cdot C \cdot D \cdot N_u^2 \cdot (A + B) + A^2 \cdot D^2 \cdot N_u^2} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot n \cdot p \cdot (V \cdot m + W \cdot l) \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)}{Z^2 \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)^2 + Y^2 \cdot n^2 \cdot p^2 \cdot (V \cdot m + W \cdot l)^2} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.25656$ $N_3 := 1.83275$
 $N_4 := 2.06284$ $N_5 := .95481$ $N_6 := 2.37274$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

$$FG := \frac{N_2}{N_1 + N_2} \quad BG := N_3 \cdot FG$$

$$AC := \frac{BG}{N_4} \quad CD := \sqrt{AC \cdot (AB - AC)}$$

$$AH := \frac{CD}{AB - AC} \quad HJ := AB - \frac{AH}{N_5}$$

$$R := N_6 \cdot (AB - HJ) \quad R = 1.481726$$

Definitions.

$$R - \frac{N_6 \cdot \sqrt{N_2 \cdot N_3 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}}{N_5 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)} = 0$$

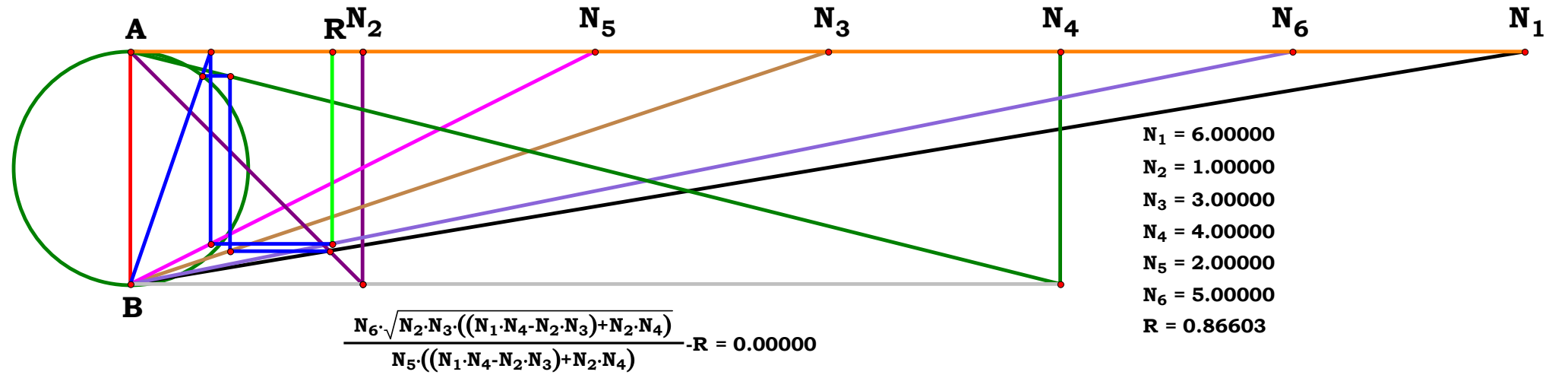
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

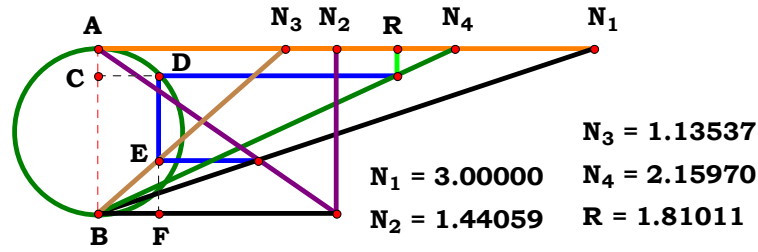
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{A \cdot D \cdot E}{F \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot C - A \cdot D + B \cdot C}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot k \cdot n \cdot o \cdot \sqrt{V \cdot W \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}}{p \cdot \sqrt{k \cdot n} \cdot Y \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.44059$ $N_3 := 1.13537$
 $N_4 := 2.15970$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$EF := \frac{N_2}{N_1 + N_2} \quad CD := N_3 \cdot EF$$

$$AC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2}$$

$$R := N_4 \cdot (AB - AC) \quad R = 1.810113$$

Definitions.

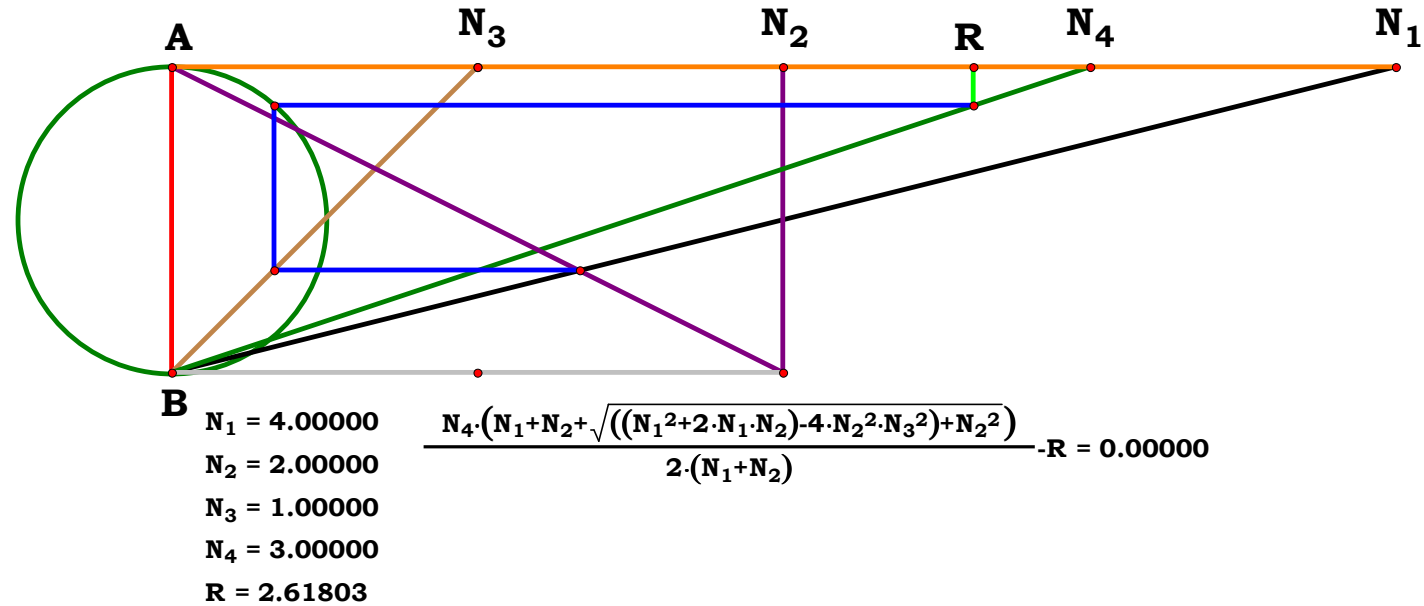
$$R - \frac{N_4 \cdot \left(N_1 + N_2 + \sqrt{N_1^2 + 2 \cdot N_1 \cdot N_2 - 4 \cdot N_2^2 \cdot N_3^2 + N_2^2} \right)}{2 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{C \cdot (A + B) - 2 \cdot A \cdot N_u} \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right] + C \cdot (A + B) \right]}{2 \cdot D \cdot (A + B) \cdot C} = 0$$

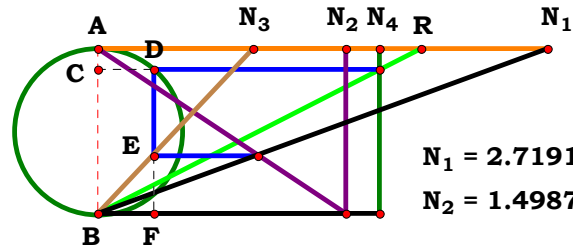
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left(\sqrt{W^2 \cdot n^2 \cdot o^2 + 2 \cdot W \cdot X \cdot m \cdot n \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 + X^2 \cdot m^2 \cdot o^2} + W \cdot n \cdot o + X \cdot m \cdot o \right)}{2 \cdot p \cdot (W \cdot n + X \cdot m) \cdot o} = 0$$





2SMT6R7



$$\begin{aligned} N_3 &= 0.94166 \\ N_1 &= 2.71911 \\ N_2 &= 1.49870 \\ N_4 &= 1.70447 \\ R &= 1.95569 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.71911 \quad N_2 := 1.49870 \quad N_3 := .94166$$

$$N_4 := 1.70447$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$EF := \frac{N_2}{N_1 + N_2} \quad CD := EF \cdot N_3$$

$$AC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2}$$

$$R := \frac{N_4}{AB - AC} \quad R = 1.95569$$

Definitions.

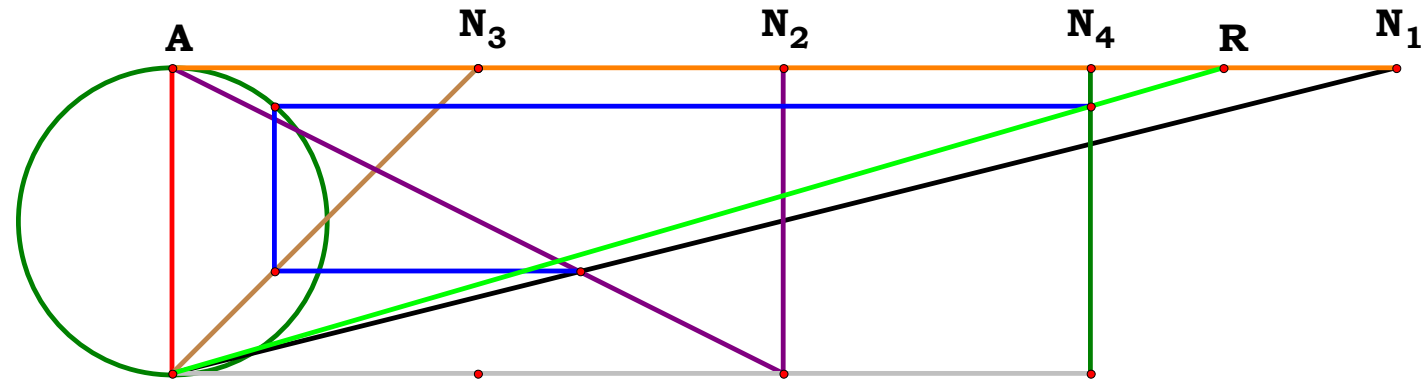
$$R - \frac{2 \cdot N_4 \cdot (N_1 + N_2)}{N_1 + N_2 + \sqrt{N_1^2 + 2 \cdot N_1 \cdot N_2 - 4 \cdot N_2^2 \cdot N_3^2 + N_2^2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u \cdot (A + B) \cdot C}{D \cdot \left[C \cdot (A + B) + \sqrt{\left[(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u) \right]} \right]} = 0$$

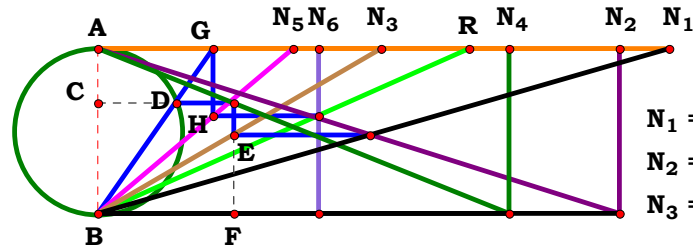
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Z \cdot (W \cdot n + X \cdot m) \cdot o}{p \cdot \left(\sqrt{W^2 \cdot n^2 \cdot o^2 + 2 \cdot W \cdot X \cdot m \cdot n \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 + X^2 \cdot m^2 \cdot o^2} + W \cdot n \cdot o + X \cdot m \cdot o \right)} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 2.00000 \\ N_3 &= 1.00000 \\ N_4 &= 3.00000 \\ R &= 3.43769 \end{aligned}$$

$$\frac{2 \cdot N_4 \cdot (N_1 + N_2)}{N_1 + N_2 + \sqrt{((N_1^2 + 2 \cdot N_1 \cdot N_2) - 4 \cdot N_2^2 \cdot N_3^2) + N_2^2}} - R = 0.00000$$



$$\begin{aligned} N_1 &= 3.45523 & N_4 &= 2.48902 \\ N_2 &= 3.15497 & N_5 &= 1.17758 \\ N_3 &= 1.71652 & N_6 &= 1.33636 \\ R &= 2.24660 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 3.45523 & N_2 &:= 3.15497 & N_3 &:= 1.71652 \\ & & N_4 &:= 2.48902 & N_5 &:= 1.17758 & N_6 &:= 1.33636 \end{aligned}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$EF := \frac{N_2}{N_1 + N_2} \quad BF := N_3 \cdot EF \quad AC := \frac{BF}{N_4}$$

$$CD := \sqrt{AC \cdot (AB - AC)} \quad AG := \frac{CD}{AB - AC} \quad GH := AB - \frac{AG}{N_5}$$

$$R := \frac{N_6}{AB - GH} \quad R = 2.246592$$

Definitions.

$$R - \frac{N_5 \cdot N_6 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}{\sqrt{N_2 \cdot N_3 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

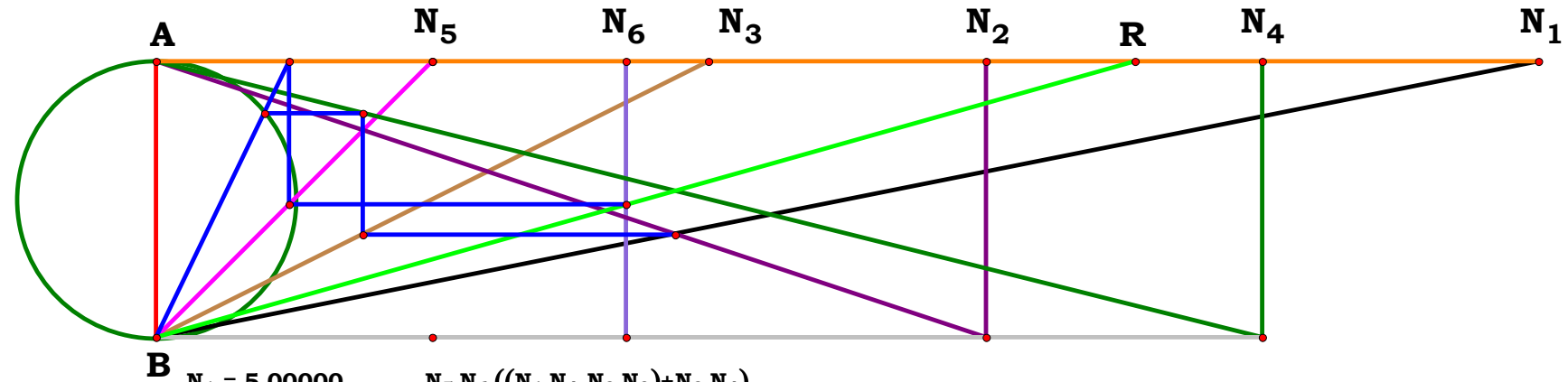
$$N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot (C - D) + B \cdot C}}{A \cdot D \cdot E \cdot F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

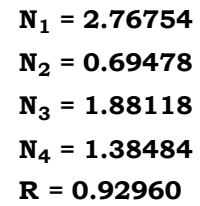
$$R - \frac{Y \cdot Z \cdot \sqrt{k \cdot n} \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{k \cdot n \cdot o \cdot p \cdot \sqrt{V \cdot W} \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$



$$\begin{aligned} N_1 &= 5.00000 & N_2 &= 3.00000 & N_3 &= 2.00000 & N_4 &= 4.00000 \\ N_5 &= 1.00000 & N_6 &= 1.70000 & R &= 3.53883 \end{aligned}$$

$$\frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{\sqrt{N_2 \cdot N_3 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}} - R = 0.00000$$

2SMT6R9


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$
$$\mathbf{w} := 20 \quad \mathbf{x} := 19 \quad \mathbf{y} := 18 \quad \mathbf{z} := 17 \quad \mathbf{m} := \frac{\mathbf{w}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{x}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{z}}{\mathbf{N}_4}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BG} := \frac{\mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{BH} := \frac{\mathbf{N}_1 \cdot \mathbf{BG}}{\mathbf{BN}_1} \quad \mathbf{FH} := \frac{\mathbf{BH}}{\mathbf{N}_2}$$

$$\mathbf{EJ} := \mathbf{N}_3 \cdot \mathbf{FH} \qquad \mathbf{BK} := \frac{\mathbf{EJ}}{\mathbf{AB} - \mathbf{FH}}$$

$$\mathbf{BC} := \frac{\mathbf{BK}}{\mathbf{BK} + \mathbf{N}_4} \quad \mathbf{CD} := \sqrt{\mathbf{BC} \cdot (\mathbf{AB} - \mathbf{BC})}$$

$$R := \frac{CD}{BC} \quad R = 0.9296$$

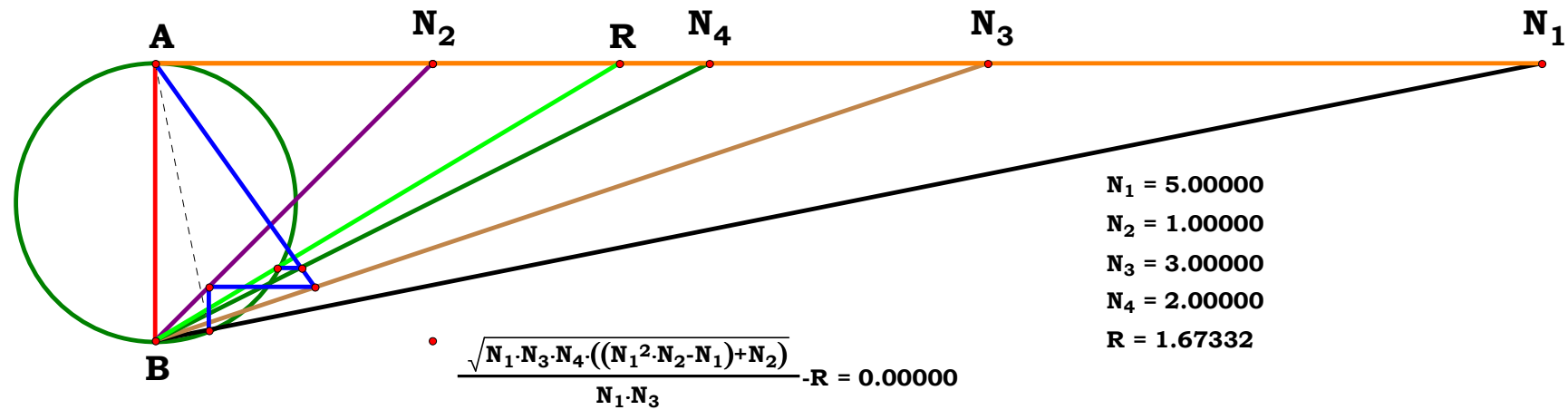
$$R - \frac{\sqrt{N_1 \cdot N_3 \cdot N_4 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)}}{N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

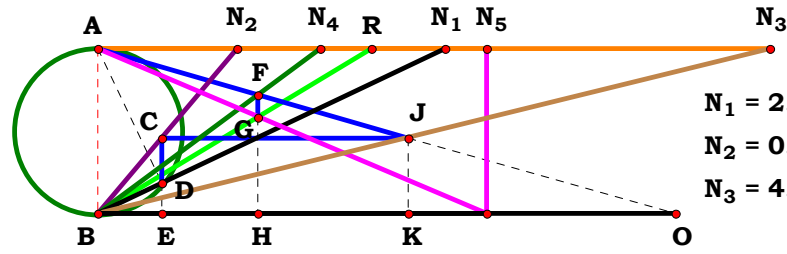
$$R - \frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{A \cdot B \cdot C \cdot D}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{o \cdot \sqrt{W \cdot Y \cdot Z} \cdot [(W^2 + m^2) \cdot X - W \cdot m \cdot n]}{W \cdot Y \cdot \sqrt{m \cdot n \cdot o \cdot p}} = 0$$



N₁ = 5.00000
N₂ = 1.00000
N₃ = 3.00000
N₄ = 2.00000
R = 1.67332



$$\begin{aligned} N_1 &:= 2.09922 & N_4 &:= 1.34610 \\ N_2 &:= 0.84007 & N_5 &:= 2.34956 \\ N_3 &:= 4.07016 & R &:= 1.65787 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.09922 \quad N_2 := .84007 \quad N_3 := 4.07016$$

$$N_4 := 1.34610 \quad N_5 := 2.34956$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{AB}{BN_1}$$

$$BE := N_1 \cdot \frac{BD}{BN_1} \quad CE := \frac{BE}{N_2}$$

$$BK := CE \cdot N_3 \quad BO := \frac{BK}{AB - CE}$$

$$BH := \frac{N_4 \cdot BO}{BO + N_4} \quad GH := AB - \frac{BH}{N_5}$$

$$R := \frac{BH}{GH} \quad R = 1.657883$$

Definitions.

$$R - \frac{N_1 \cdot N_3 \cdot N_4 \cdot N_5}{N_4 \cdot N_5 \cdot (N_1^2 \cdot N_2 - N_1 + N_2) - N_1 \cdot N_3 \cdot (N_4 - N_5)} = 0$$

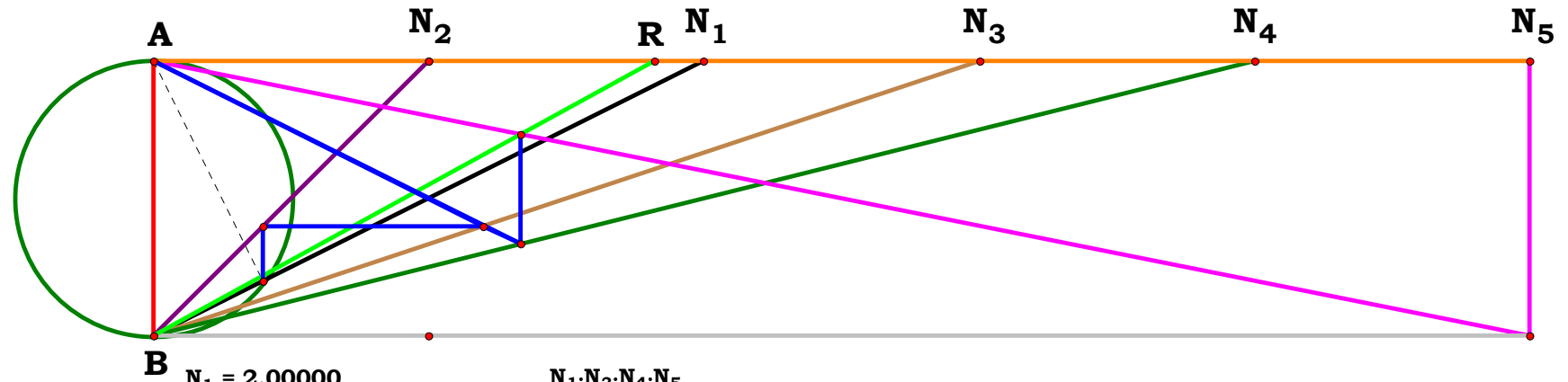
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot B \cdot N_u}{C \cdot (A^2 + N_u^2) - A \cdot B \cdot (C - D + E)} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot 1 \cdot m}{W \cdot Y \cdot Z \cdot n \cdot (V^2 + 1^2) - V \cdot 1 \cdot m \cdot (X \cdot Y \cdot p - X \cdot Z \cdot o + Y \cdot Z \cdot n)} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$$\begin{aligned} N_1 &:= 2.00000 \\ N_2 &:= 1.00000 \\ N_3 &:= 3.00000 \\ N_4 &:= 4.00000 \\ N_5 &:= 5.00000 \\ R &:= 1.81818 \end{aligned}$$

$$\frac{N_1 \cdot N_3 \cdot N_4 \cdot N_5}{N_4 \cdot N_5 \cdot ((N_1^2 \cdot N_2 - N_1) + N_2) - N_1 \cdot N_3 \cdot (N_4 - N_5)} - R = 0.00000$$



2SMT6R11

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BD := \frac{AB^2}{BN_1}$$

$$BE := \frac{N_1 \cdot BD}{BN_1} \quad CE := \frac{AB \cdot BE}{N_2}$$

$$GH := \frac{N_3 \cdot CE}{AB} \quad BG := N_3 - GH$$

$$R := \frac{BG \cdot AB}{CE} \quad R = 3.131245$$

Definitions.

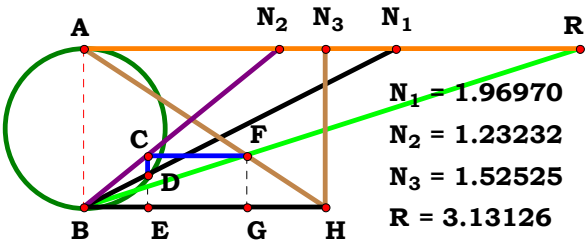
$$R - \frac{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 - N_1 \cdot N_3}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 - B \cdot A + N_u^2)}{A \cdot B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

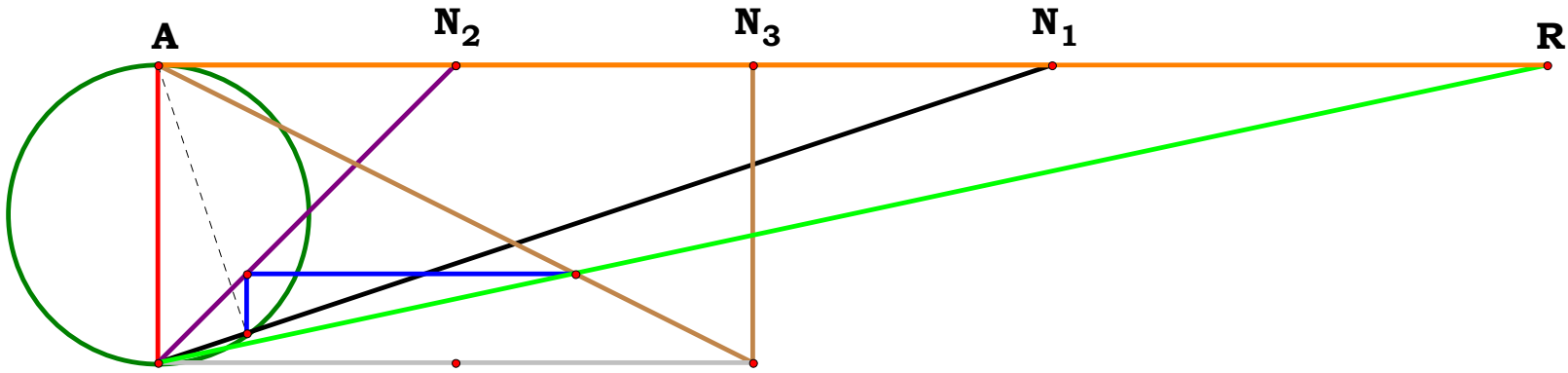
$$R - \frac{Y \cdot Z \cdot X^2 - Z \cdot p \cdot X \cdot o + Y \cdot Z \cdot o^2}{X \cdot o \cdot p \cdot q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.96970$ $N_2 := 1.23232$ $N_3 := 1.52525$

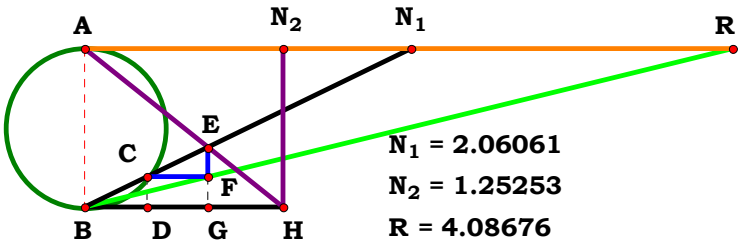
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$N_1 = 3.00000 \quad N_2 = 1.00000 \quad N_3 = 2.00000 \quad R = 4.66667$$

$$\frac{(N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 - N_1 \cdot N_3)}{N_1} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.06061$ $N_2 := 1.25253$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BG := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad BN_1 := \sqrt{N_1^2 + AB^2}$$

$$BC := \frac{AB^2}{BN_1} \quad CD := \frac{AB \cdot BC}{BN_1}$$

$$R := \frac{BG \cdot AB}{CD} \quad R = 4.086785$$

Definitions.

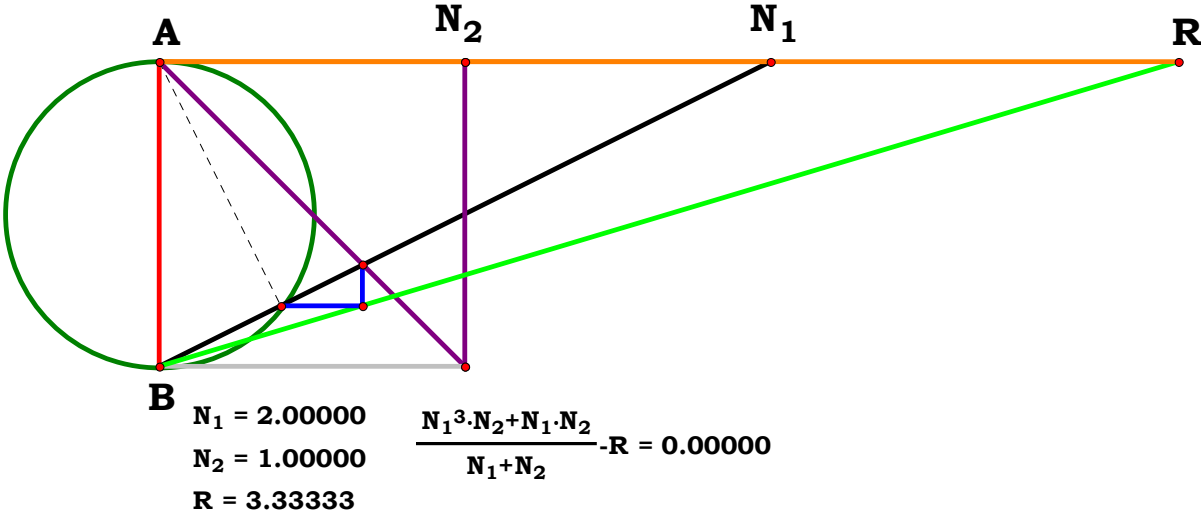
$$R - \frac{N_1^3 \cdot N_2 + N_1 \cdot N_2}{N_1 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{A^2 \cdot (A + B)} = 0$$

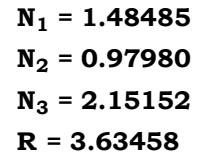
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (Y^2 + p^2)}{p^2 \cdot (Y \cdot q + Z \cdot p)} = 0$$



$$\frac{N_1^3 \cdot N_2 + N_1 \cdot N_2}{N_1 + N_2} - R = 0.00000$$

2SMT6R13


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{N}_1^2 + \mathbf{AB}^2} \quad \mathbf{BD} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1} \quad \mathbf{BE} := \frac{\mathbf{N}_1 \cdot \mathbf{BD}}{\mathbf{BN}_1}$$

$$\mathbf{CE} := \frac{\mathbf{AB} \cdot \mathbf{BE}}{\mathbf{N}_2} \quad \mathbf{HJ} := \frac{\mathbf{N}_3 \cdot \mathbf{CE}}{\mathbf{AB}} \quad \mathbf{BH} := \mathbf{N}_3 - \mathbf{HJ}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BE}}{\mathbf{N}_1} \quad \mathbf{R} := \frac{\mathbf{BH} \cdot \mathbf{AB}}{\mathbf{DE}} \quad \mathbf{R} = 3.6346$$

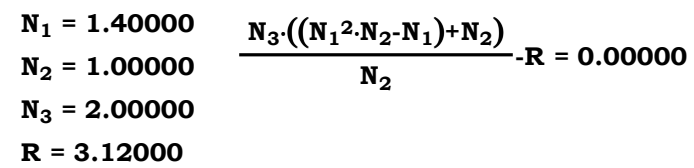
$$R - \frac{N_3 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)}{N_2} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$R - \frac{N_u \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{X}^2 - \mathbf{p} \cdot \mathbf{X} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o}^2)}{\mathbf{Y} \cdot \mathbf{o}^2 \cdot \mathbf{q}} = 0$$





2SMT6R14

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BC := \frac{AB^2}{BN_1}$$

$$CD := \frac{AB \cdot BC}{BN_1} \quad FG := \frac{N_3 \cdot CD}{AB}$$

$$BF := N_3 - FG \quad HF := \frac{AB \cdot BF}{N_2}$$

$$R := \frac{N_1 \cdot HF}{AB} \quad R = 1.696829$$

Definitions.

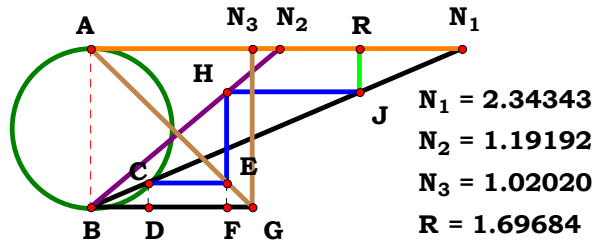
$$R - \frac{N_1^3 \cdot N_3}{N_1^2 \cdot N_2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot N_u^3}{A \cdot C \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

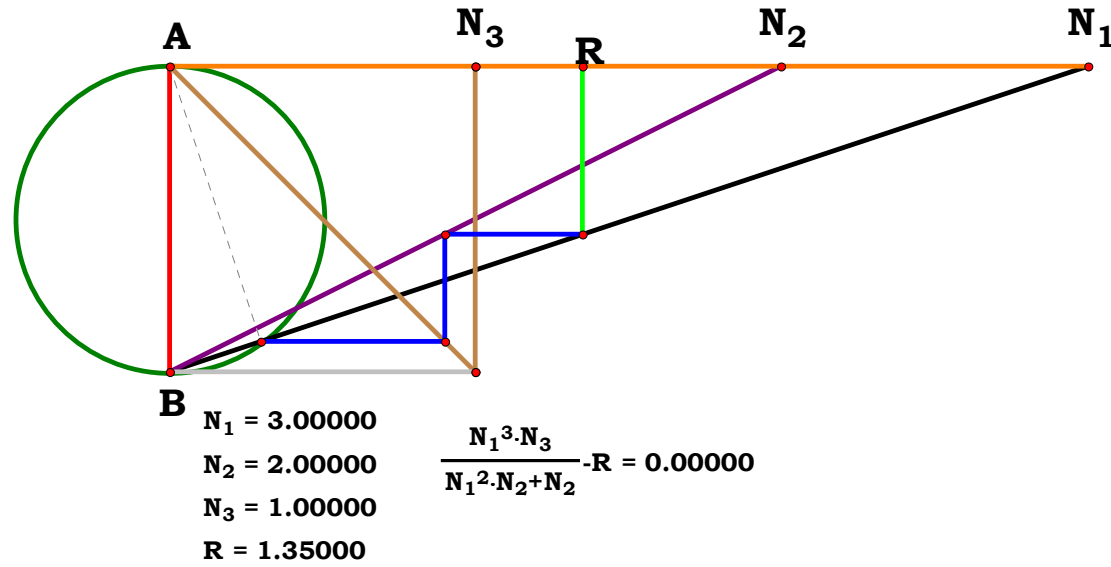
$$R - \frac{X^3 \cdot Z \cdot p}{Y \cdot o \cdot q \cdot (X^2 + o^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.34343$ $N_2 := 1.19192$ $N_3 := 1.02020$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

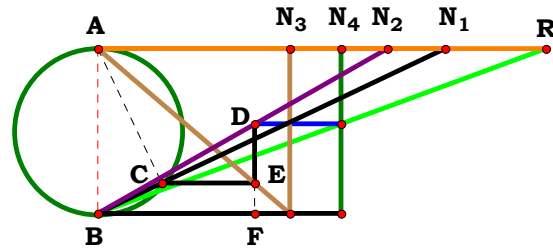


$$N_1 = 3.00000 \quad N_2 = 2.00000 \quad N_3 = 1.00000 \quad R = 1.35000$$

$$\frac{N_1^3 \cdot N_3}{N_1^2 \cdot N_2 + N_2} - R = 0.00000$$



2SMT6R15



$N_1 = 2.09922$
 $N_2 = 1.75053$
 $N_3 = 1.16443$
 $N_4 = 1.47201$
 $R = 2.71510$

Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.75053$ $N_3 := 1.16443$ $N_4 := 1.47201$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BC := \frac{AB^2}{BN_1}$$

$$EF := AB \cdot \frac{BC}{BN_1} \quad BF := N_3 \cdot (AB - EF)$$

$$DF := \frac{BF}{N_2} \quad R := \frac{N_4}{DF} \quad R = 2.715097$$

Definitions.

$$R - \frac{N_2 \cdot N_4 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_3} = 0$$

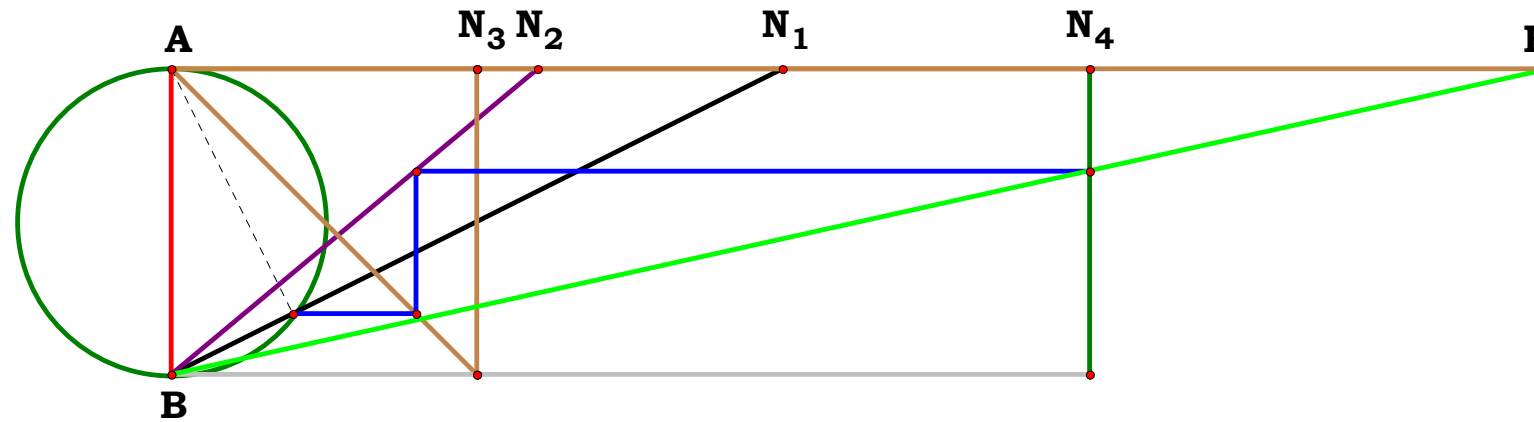
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{C \cdot (A^2 + N_u^2)}{B \cdot D \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot o \cdot (W^2 + m^2)}{W^2 \cdot Y \cdot n \cdot p} = 0$$

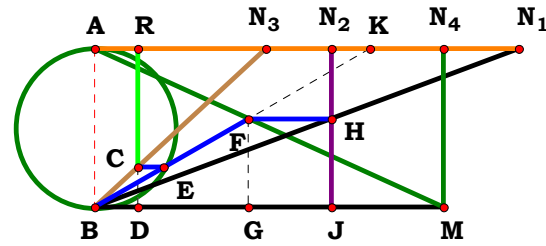


$N_1 = 2.00000$
 $N_2 = 1.20000$
 $N_3 = 1.00000$
 $N_4 = 3.00000$
 $R = 4.50000$

$$\frac{N_2 \cdot N_4 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_3} - R = 0.00000$$



2SMT7R0



$$\begin{aligned} N_1 &= 2.67677 \\ N_2 &= 1.49495 \\ N_3 &= 1.08081 \\ N_4 &= 2.20202 \\ R &= 0.26817 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.67677 \quad N_2 := 1.49495 \quad N_3 := 1.08081 \quad N_4 := 2.20202$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$HJ := \frac{N_2}{N_1} \quad GM := \frac{N_4 \cdot HJ}{AB}$$

$$BG := N_4 - GM \quad AK := \frac{BG \cdot AB}{HJ}$$

$$BK := \sqrt{AK^2 + AB^2} \quad BE := \frac{AB^2}{BK}$$

$$CD := \frac{AB \cdot BE}{BK} \quad R := \frac{N_3 \cdot CD}{AB}$$

$$R = 0.268168$$

Definitions.

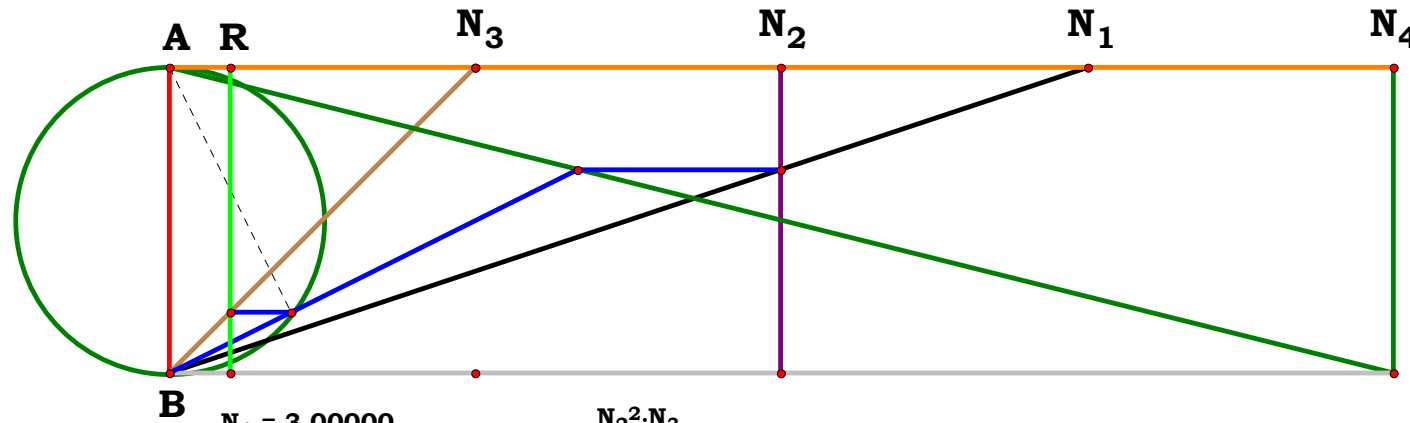
$$R - \frac{N_2^2 \cdot N_3}{N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_4^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A^2 \cdot D^2 \cdot N_u}{A^2 \cdot C \cdot D^2 + C \cdot N_u^2 \cdot (A - B)^2} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

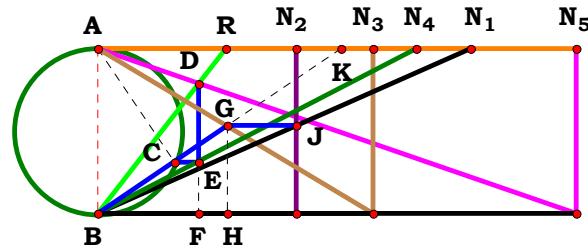
$$R - \frac{X^2 \cdot Y \cdot m^2 \cdot p^2}{Z^2 \cdot o \cdot (W \cdot n - X \cdot m)^2 + X^2 \cdot m^2 \cdot o \cdot p^2} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 1.00000 \\ N_4 &= 4.00000 \\ R &= 0.20000 \end{aligned}$$
$$\frac{N_2^2 \cdot N_3}{N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_4^2 + 1)} - R = 0.00000$$



2SMT7R1



$N_1 = 2.25419$
 $N_2 = 1.19844$
 $N_3 = 1.66809$
 $N_4 = 1.92724$
 $N_5 = 2.89197$
 $R = 0.77308$

Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 1.19844$ $N_3 := 1.66809$

$N_4 := 1.92724$ $N_5 := 2.89197$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$JN_2 := AB - \frac{N_2}{N_1} \quad BH := N_3 \cdot JN_2$$

$$AK := \frac{BH}{AB - JN_2} \quad BK := \sqrt{AB^2 + AK^2}$$

$$BC := \frac{AB^2}{BK} \quad EF := \frac{BC}{BK}$$

$$BF := N_4 \cdot EF \quad DF := AB - \frac{BF}{N_5}$$

$$R := \frac{BF}{DF} \quad R = 0.773071$$

Definitions.

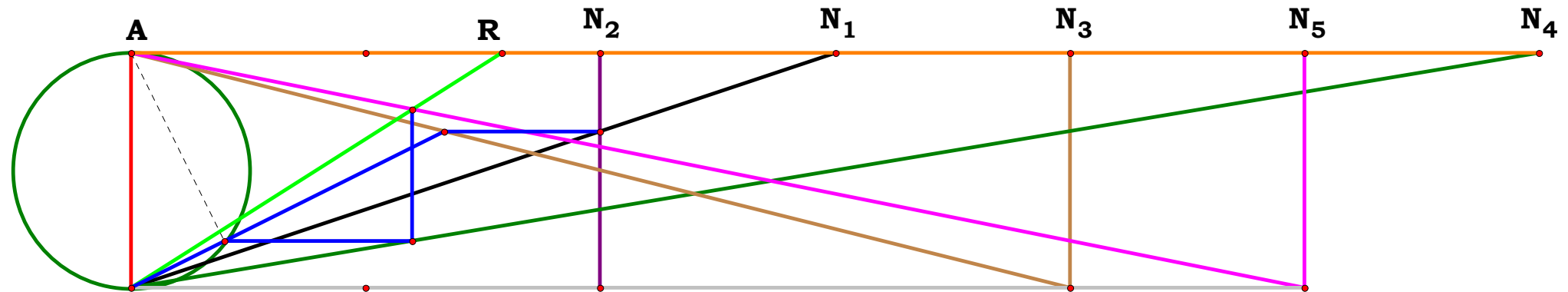
$$R - \frac{N_2^2 \cdot N_4 \cdot N_5}{N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A^2 \cdot C^2 \cdot N_u}{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)} = 0$$

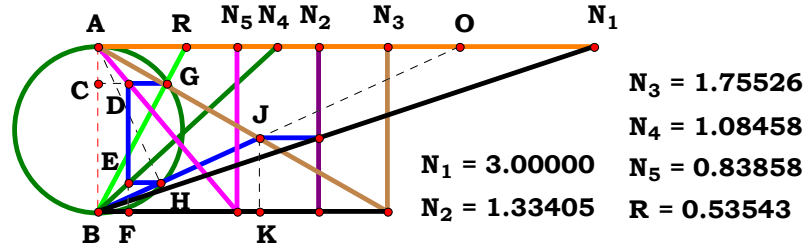
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W^2 \cdot Y \cdot Z \cdot l^2 \cdot n^2}{W^2 \cdot l^2 \cdot (X^2 \cdot Z \cdot o - Y \cdot n^2 \cdot p + Z \cdot n^2 \cdot o) + V \cdot X^2 \cdot Z \cdot m \cdot o \cdot (V \cdot m - 2 \cdot W \cdot l)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 6.00000$
 $N_5 = 5.00000$
 $R = 1.57895$

$$\frac{N_2^2 \cdot N_4 \cdot N_5}{N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.33405$ $N_3 := 1.75526$

$N_4 := 1.08458$ $N_5 := .83858$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$JK := \frac{N_2}{N_1} \quad BK := N_3 \cdot (AB - JK) \quad AO := \frac{BK}{JK}$$

$$BO := \sqrt{AB^2 + AO^2} \quad BH := \frac{AB^2}{BO} \quad EF := \frac{BH}{BO}$$

$$BF := EF \cdot N_4 \quad AC := \frac{BF}{N_5}$$

$$CG := \sqrt{AC \cdot (AB - AC)} \quad R := \frac{CG}{AB - AC}$$

$$R = 0.535436$$

Definitions.

$$R - \frac{N_2 \cdot \sqrt{N_4 \cdot N_5^2 \cdot [N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5)]}}{N_5 \cdot [N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5)]} = 0$$

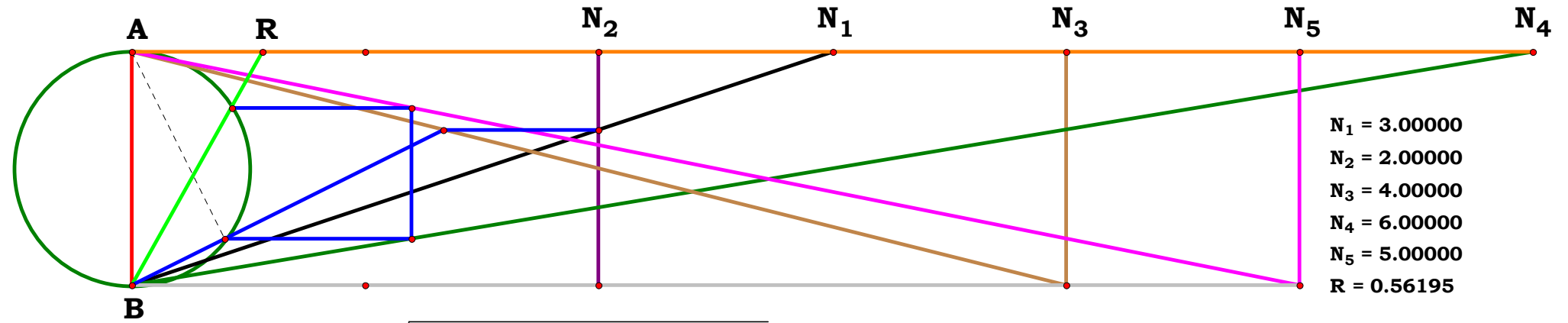
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot C \cdot \sqrt{E} \cdot N_u^3 \cdot \sqrt{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)}}{A^2 \cdot N_u^3 \cdot [C^2 \cdot (D - E) + D \cdot N_u^2] - B \cdot D \cdot N_u^5 \cdot (2 \cdot A - B)} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot 1 \cdot n \cdot \sqrt{p} \cdot \sqrt{W^2 \cdot Y \cdot Z^2 \cdot 1^2 \cdot (X^2 \cdot Z \cdot o - Y \cdot n^2 \cdot p + Z \cdot n^2 \cdot o) + V \cdot X^2 \cdot Y \cdot Z^3 \cdot m \cdot o \cdot (V \cdot m - 2 \cdot W \cdot 1)}}{Z \cdot (V^2 \cdot X^2 \cdot Z \cdot m^2 \cdot o + W^2 \cdot X^2 \cdot Z \cdot 1^2 \cdot o - W^2 \cdot Y \cdot 1^2 \cdot n^2 \cdot p + W^2 \cdot Z \cdot 1^2 \cdot n^2 \cdot o - 2 \cdot V \cdot W \cdot X^2 \cdot Z \cdot 1 \cdot m \cdot o)} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$$\frac{N_2 \cdot \sqrt{N_4 \cdot N_5^2 \cdot (N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5))}}{N_5 \cdot (N_3^2 \cdot N_5 \cdot (N_1 - N_2)^2 - N_2^2 \cdot (N_4 - N_5))} - R = 0.00000$$



2SMT7R3

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BC := \frac{AB^2}{BN_1}$$

$$CD := \frac{AB \cdot BC}{BN_1} \quad GH := \frac{N_4 \cdot CD}{AB}$$

$$BG := N_4 - GH \quad EG := \frac{AB \cdot BG}{N_3}$$

$$R := \frac{N_2 \cdot AB}{EG} \quad R = 2.230659$$

Definitions.

$$R - \frac{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3}{N_1^2 \cdot N_4} = 0$$

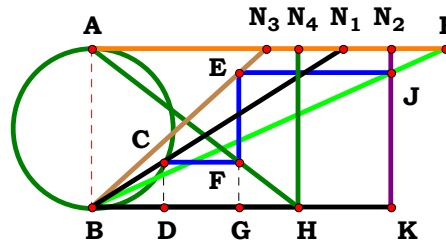
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot p \cdot (W^2 + m^2)}{W^2 \cdot Z \cdot n \cdot o} = 0$$

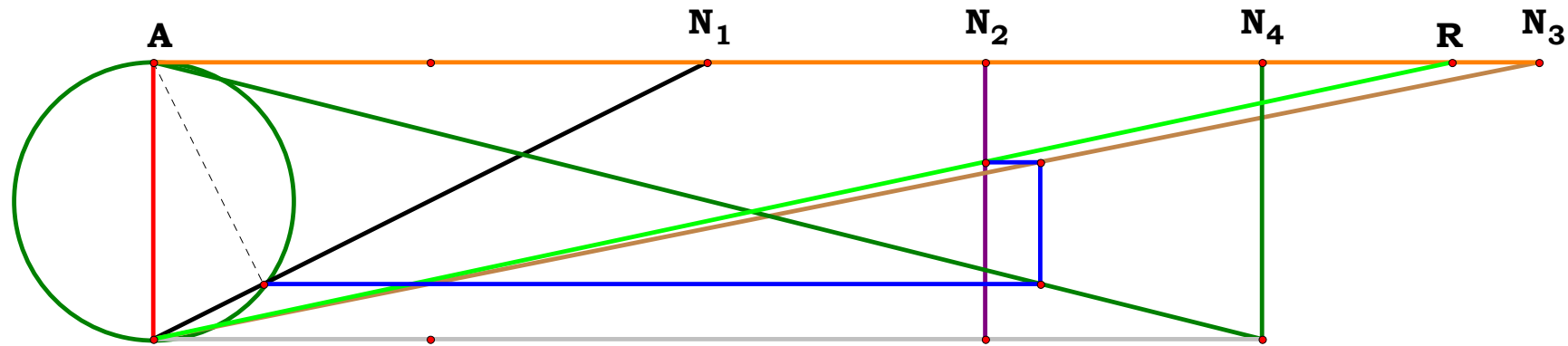


$N_1 = 1.58586$
 $N_2 = 1.88889$
 $N_3 = 1.10101$
 $N_4 = 1.30303$
 $R = 2.23066$

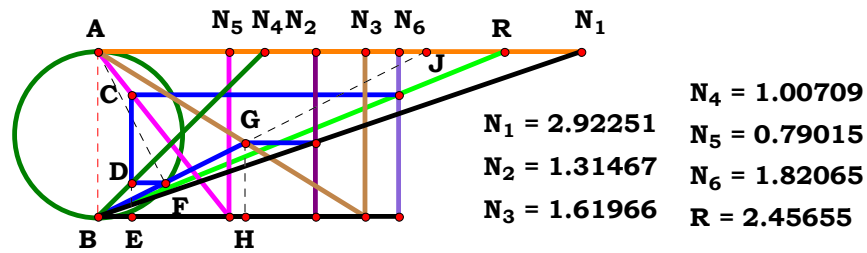
Unit. $AB := 1$ Given. $N_1 := 1.58586$ $N_2 := 1.88889$ $N_3 := 1.10101$ $N_4 := 1.30303$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 5.00000$
 $N_4 = 4.00000$
 $R = 4.68750$
 $\frac{N_1^2 \cdot N_2 \cdot N_3 + N_2 \cdot N_3}{N_1^2 \cdot N_4} - R = 0.00000$



Unit. $AB := 1$ Given. $N_1 := 2.92251$ $N_2 := 1.31467$ $N_3 := 1.61966$
 $N_4 := 1.00709$ $N_5 := .79015$ $N_6 := 1.82065$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

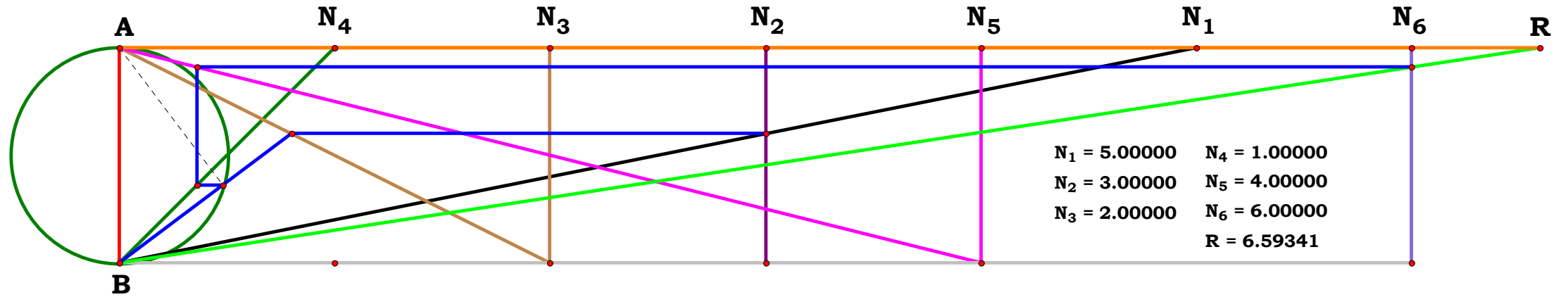
$$GH := \frac{N_2}{N_1} \quad BH := N_3 \cdot (AB - GH)$$

$$AJ := \frac{BH}{GH} \quad BJ := \sqrt{AB^2 + AJ^2}$$

$$BF := \frac{AB^2}{BJ} \quad DE := \frac{BF}{BJ}$$

$$BE := DE \cdot N_4 \quad CE := AB - \frac{BE}{N_5}$$

$$R := \frac{N_6}{CE} \quad R = 2.456551$$



Definitions.

$$R - \frac{N_5 \cdot N_6 \cdot [N_1 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_3^2 + 1)]}{N_5 \cdot [N_1 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_3^2 + 1)] - N_2^2 \cdot N_4} = 0$$

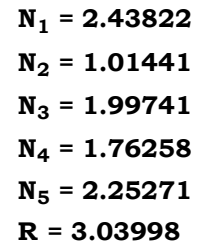
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u^3 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot D \cdot N_u}{N_u^2 \cdot D \cdot F \cdot (A - B)^2 + A^2 \cdot C^2 \cdot F \cdot (D - E)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W^2 \cdot Y \cdot Z \cdot n \cdot (U \cdot l - V \cdot k)^2 + V^2 \cdot Y \cdot Z \cdot k^2 \cdot m^2 \cdot n}{W^2 \cdot Y \cdot n \cdot p \cdot (U \cdot l - V \cdot k)^2 + V^2 \cdot k^2 \cdot m^2 \cdot p \cdot (Y \cdot n - X \cdot o)} = 0$$

$$\frac{N_5 \cdot N_6 \cdot (N_1 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_3^2 + 1))}{N_5 \cdot (N_1 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_3^2 + 1)) - N_2^2 \cdot N_4} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{AB}^2}{\mathbf{BN}_1}$$

$$\mathbf{FH} := \frac{\mathbf{BH}}{\mathbf{N}_4} \quad \mathbf{R} := \frac{\mathbf{N}_5}{\mathbf{FH}}$$

Definitions.

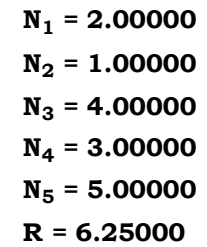
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_1^2 + 1)}{N_3 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{C \cdot N_u \cdot (A^2 + N_u^2)}{D \cdot E \cdot (A^2 - B \cdot A + N_u^2)} = 0$$

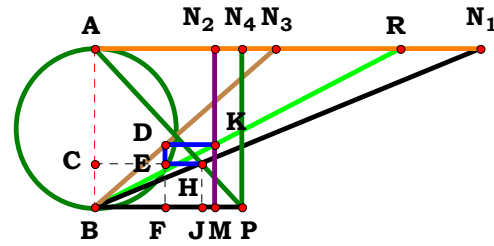
$$\mathbf{N}_1 - \frac{\mathbf{V}}{1} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot (\mathbf{V}^2 + \mathbf{l}^2)}{\mathbf{o} \cdot \mathbf{p} \cdot \mathbf{X} \cdot (\mathbf{W} \cdot \mathbf{V}^2 - \mathbf{m} \cdot \mathbf{V} \cdot \mathbf{l} + \mathbf{W} \cdot \mathbf{l}^2)} = 0$$





2SMT7R6



$N_1 = 2.43434$
 $N_2 = 0.75758$
 $N_3 = 1.14141$
 $N_4 = 0.92929$
 $R = 1.93380$

Unit. $AB := 1$ Given. $N_1 := 2.43434$ $N_2 := .75758$ $N_3 := 1.14141$ $N_4 := .92929$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$HJ := \frac{AB \cdot N_4}{N_4 + N_1} \quad CE := \sqrt{HJ \cdot (AB - HJ)}$$

$$DF := \frac{AB \cdot CE}{N_3} \quad R := \frac{N_2 \cdot AB}{DF}$$

$R = 1.933803$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{N_1 \cdot N_4}} = 0$$

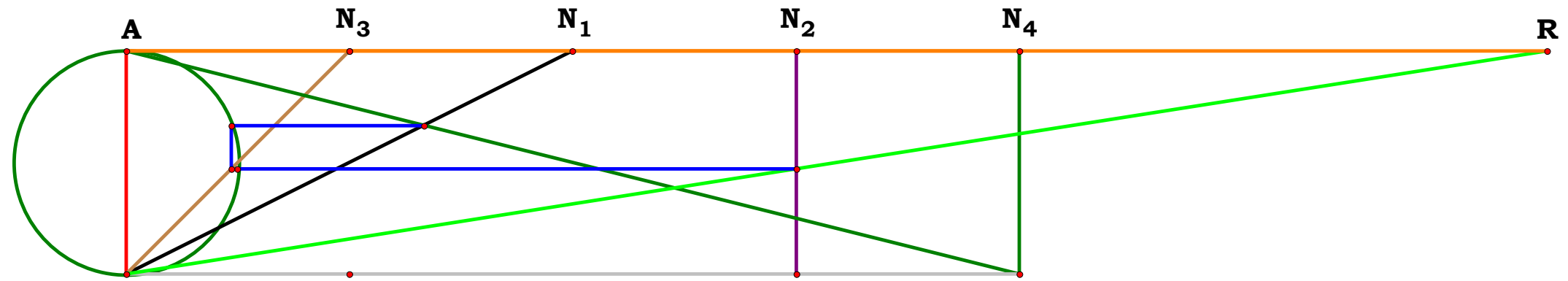
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D)}{A \cdot B \cdot C \cdot D} = 0$$

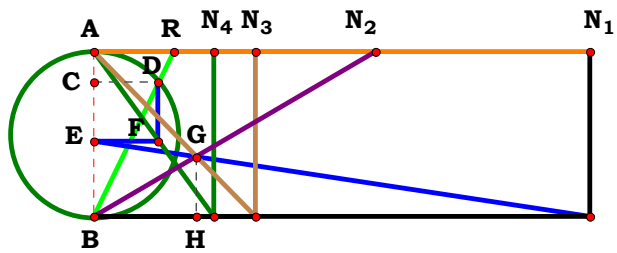
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot (W \cdot p + Z \cdot m) \cdot \sqrt{m \cdot p}}{m \cdot n \cdot o \cdot p \cdot \sqrt{W \cdot Z}} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 4.00000$
 $R = 6.36396$

$$\frac{N_2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{N_1 \cdot N_4}} - R = 0.00000$$



$N_1 = 3.00000$
 $N_2 = 1.70210$
 $N_3 = 0.98040$
 $N_4 = 0.72621$
 $R = 0.48245$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.70210$ $N_3 := .98040$ $N_4 := .72621$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$
 $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

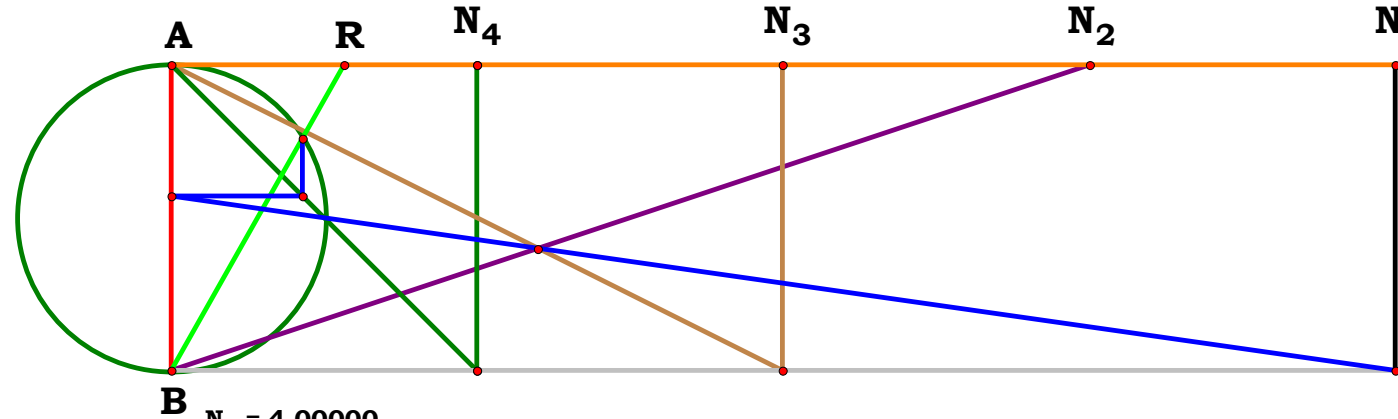
Descriptions.

$$GH := \frac{N_3}{N_2 + N_3} \quad BH := \frac{N_2 \cdot N_3}{N_2 + N_3}$$

$$BE := \frac{GH \cdot N_1}{N_1 - BH} \quad CD := N_4 \cdot (AB - BE)$$

$$AC := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - CD^2} \quad R := \frac{CD}{AB - AC}$$

$R = 0.482453$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $N_4 = 1.00000$
 $R = 0.56574$

$$R = \frac{2 \cdot N_2 \cdot N_4 \cdot (N_1 - N_3)}{\sqrt{((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2 - 4 \cdot N_2^2 \cdot N_4^2 \cdot (N_1 - N_3)^2 + (N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3}} - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_4 \cdot (N_1 - N_3)}{\sqrt{((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2 - 4 \cdot N_2^2 \cdot N_4^2 \cdot (N_1 - N_3)^2 + (N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

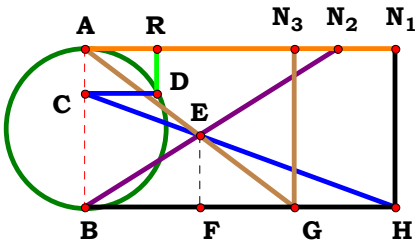
$$R - \frac{2 \cdot N_u \cdot (A - C)}{D \cdot (A - B - C) - \sqrt{D^2 \cdot (A - B - C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X \cdot Z \cdot (W \cdot o - Y \cdot m)}{\sqrt{[W \cdot (X \cdot o \cdot p - 2 \cdot X \cdot Z \cdot o + Y \cdot n \cdot p) + X \cdot Y \cdot m \cdot (2 \cdot Z - p)] \cdot [W \cdot (2 \cdot X \cdot Z \cdot o + X \cdot o \cdot p + Y \cdot n \cdot p) - X \cdot Y \cdot m \cdot (2 \cdot Z + p)] + W \cdot X \cdot o \cdot p + W \cdot Y \cdot n \cdot p - X \cdot Y \cdot m \cdot p}} = 0$$



2SMT8R1



$N_1 = 1.95960$
 $N_2 = 1.59596$
 $N_3 = 1.32323$
 $R = 0.44970$

Unit. $AB := 1$ Given. $N_1 := 1.95960$ $N_2 := 1.59596$ $N_3 := 1.32323$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$EF := \frac{AB \cdot N_3}{N_3 + N_2}$ $BF := \frac{N_2 \cdot EF}{AB}$

$BC := \frac{EF \cdot N_1}{N_1 - BF}$ $R := \sqrt{BC \cdot (AB - BC)}$

$R = 0.449703$

Definitions.

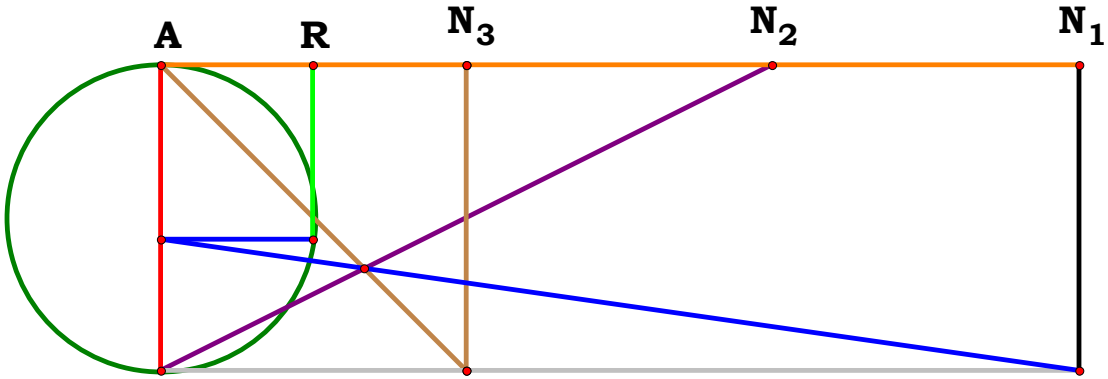
$R - \frac{\sqrt{N_1 \cdot N_2 \cdot N_3 \cdot (N_1 - N_3)}}{(N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$

$R - \frac{\sqrt{B} \cdot \sqrt{C - A}}{B - A + C} = 0$

$N_1 - \frac{X}{o} = 0$ $N_2 - \frac{Y}{p} = 0$ $N_3 - \frac{Z}{q} = 0$

$R - \frac{\sqrt{p} \cdot \sqrt{X \cdot Y \cdot Z \cdot (X \cdot q - Z \cdot o)}}{X \cdot Y \cdot q + X \cdot Z \cdot p - Y \cdot Z \cdot o} = 0$

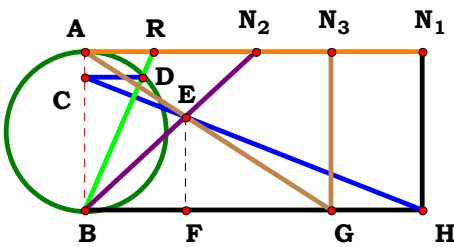


$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $R = 0.49487$

$\frac{\sqrt{N_1 \cdot N_2 \cdot N_3 \cdot (N_1 - N_3)}}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} \cdot R = 0.00000$



2SMT8R2



$N_1 = 2.13131$
 $N_2 = 1.08081$
 $N_3 = 1.55556$
 $R = 0.43324$

Unit. $AB := 1$ Given. $N_1 := 2.13131$ $N_2 := 1.08081$ $N_3 := 1.55556$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$EF := \frac{AB \cdot N_3}{N_3 + N_2} \quad BF := \frac{N_2 \cdot EF}{AB}$$

$$BC := \frac{EF \cdot N_1}{N_1 - BF} \quad CD := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CD \cdot AB}{BC} \quad R = 0.433236$$

Definitions.

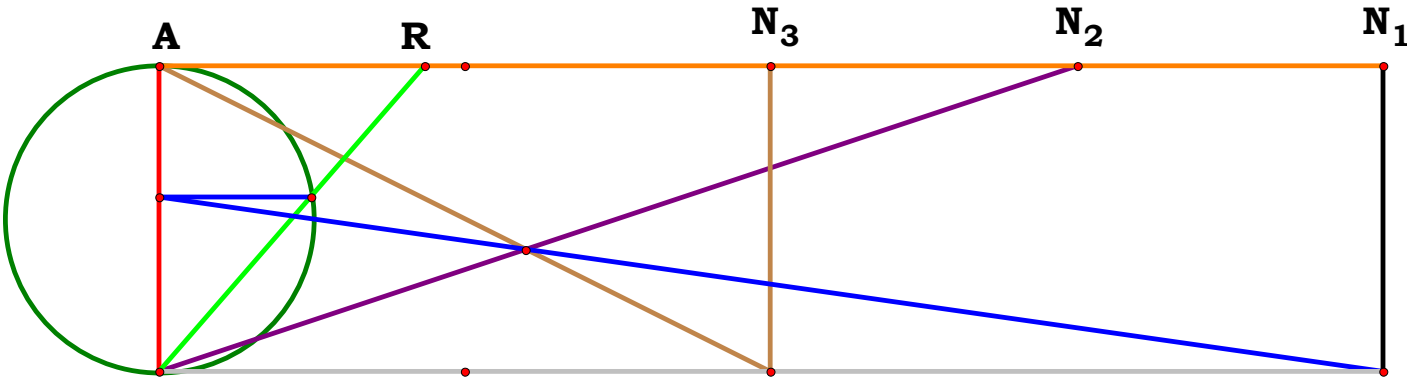
$$R - \frac{\sqrt{(N_1^2 \cdot N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3^2)}}{N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{C - A}}{\sqrt{B}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{X \cdot Y \cdot Z \cdot (X \cdot q - Z \cdot o)}}{X \cdot Z \cdot \sqrt{p}} = 0$$

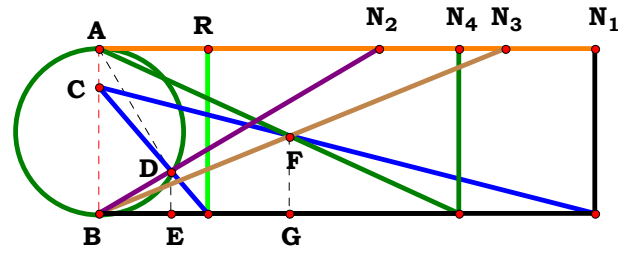


$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $R = 0.86603$

$$\frac{\sqrt{N_1^2 \cdot N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3^2}}{N_1 \cdot N_3} - R = 0.00000$$



2SMT8R4



$N_1 = 3.00000$
 $N_2 = 1.69242$
 $N_3 = 2.46232$
 $N_4 = 2.17907$
 $R = 0.66238$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.69242$ $N_3 := 2.46232$ $N_4 := 2.17907$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$FG := \frac{N_4}{N_3 + N_4} \quad BG := FG \cdot N_3$$

$$BC := \frac{FG \cdot N_1}{N_1 - BG}$$

$$BN_2 := \sqrt{AB^2 + N_2^2} \quad BD := \frac{AB^2}{BN_2}$$

$$DE := \frac{BD}{BN_2} \quad BE := N_2 \cdot DE$$

$$R := \frac{BE \cdot BC}{BC - DE} \quad R = 0.662377$$

Definitions.

$$R - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_2^2 \cdot N_4 - N_1 \cdot N_3 + N_3 \cdot N_4} = 0$$

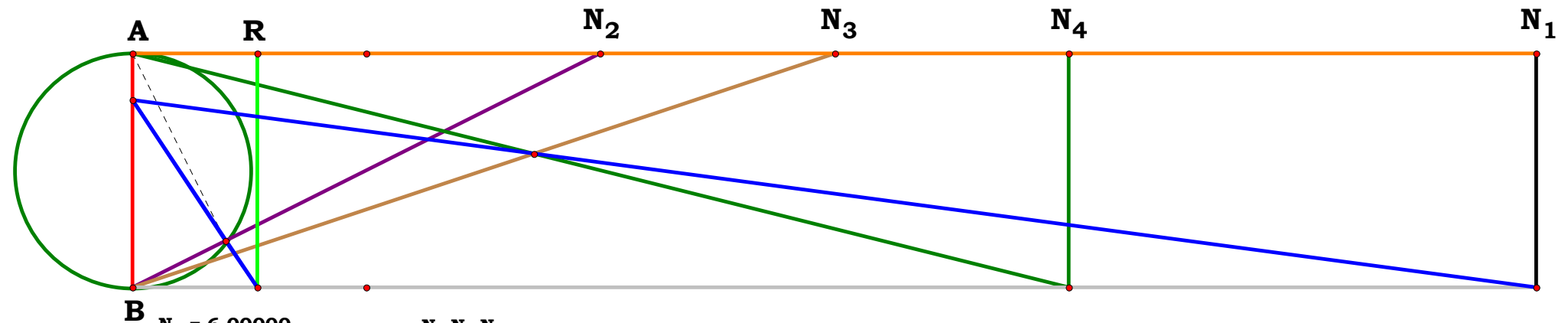
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot C \cdot N_u}{B^2 \cdot (A - D) + C \cdot N_u^2} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot n \cdot o}{W \cdot (X^2 \cdot Z \cdot o - Y \cdot n^2 \cdot p) + Y \cdot Z \cdot m \cdot n^2} = 0$$

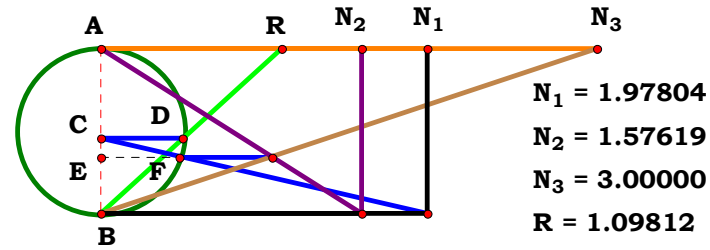


$N_1 = 6.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $R = 0.53333$

$$\frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2^2 \cdot N_4 - N_1 \cdot N_3) + N_3 \cdot N_4} \cdot R = 0.00000$$



2SMT8R5



Unit. $AB := 1$ Given. $N_1 := 1.97804$ $N_2 := 1.57619$ $N_3 := 3$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BE := \frac{N_2}{N_2 + N_3} \quad EF := \sqrt{BE \cdot (AB - BE)}$$

$$BC := \frac{BE \cdot N_1}{N_1 - EF} \quad CD := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CD}{BC} \quad R = 1.098117$$

Definitions.

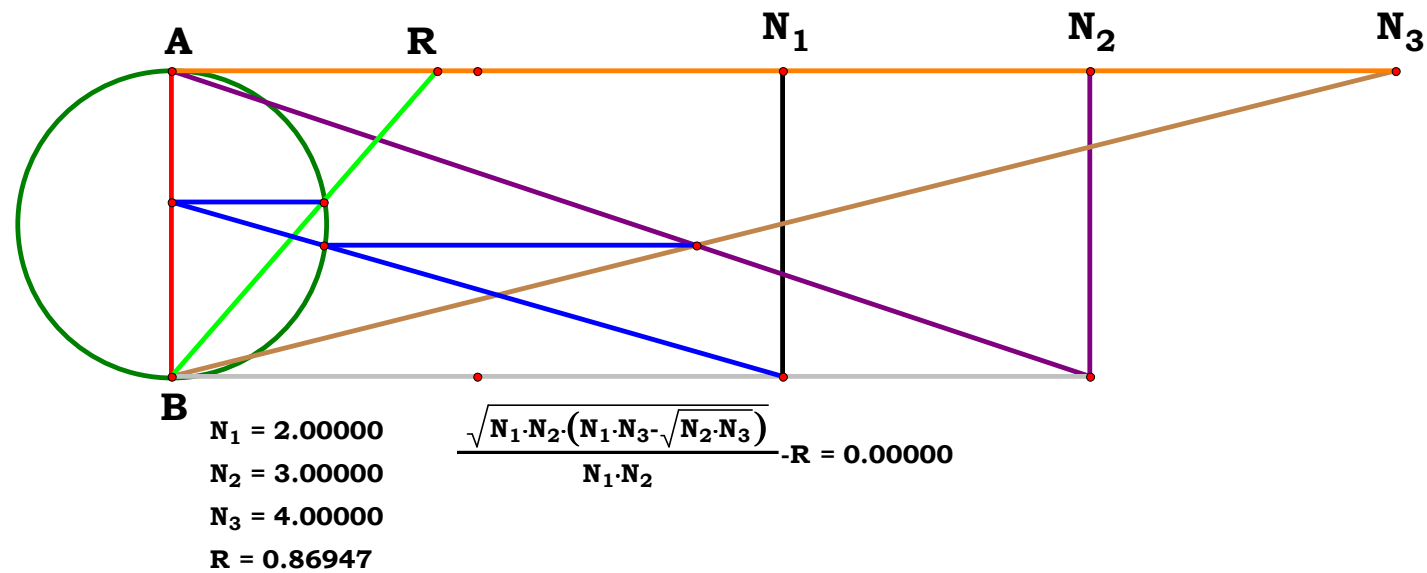
$$R - \frac{\sqrt{N_1 \cdot N_2 \cdot (N_1 \cdot N_3 - \sqrt{N_2 \cdot N_3})}}{N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot \sqrt{N_u \cdot (N_u \cdot \sqrt{B \cdot C} - A \cdot C)}}{N_u \cdot (B \cdot C)^{\frac{3}{4}}} = 0$$

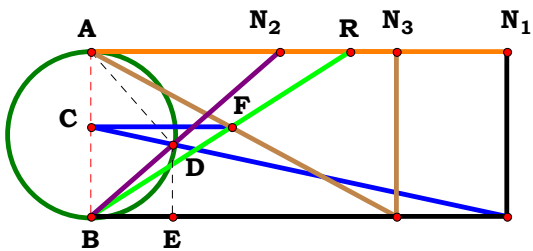
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{p \cdot \sqrt{X \cdot Y \cdot (X \cdot Z \cdot \sqrt{p \cdot q} - o \cdot q \cdot \sqrt{Y \cdot Z})}}{X \cdot Y \cdot \sqrt{p \cdot q} \cdot \sqrt{p \cdot q}} = 0$$





2SMT8R7



$N_1 = 2.51571$
 $N_2 = 1.14033$
 $N_3 = 1.85212$
 $R = 1.56887$

Unit. $AB := 1$ Given. $N_1 := 2.5157$ $N_2 := 1.14033$ $N_3 := 1.85212$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_2 := \sqrt{AB^2 + N_2^2} \quad BD := \frac{AB^2}{BN_2}$$

$$DE := \frac{BD}{BN_2} \quad BE := N_2 \cdot DE$$

$$BC := \frac{DE \cdot N_1}{N_1 - BE} \quad CF := N_3 \cdot (AB - BC)$$

$$R := \frac{CF}{BC} \quad R = 1.56887$$

Definitions.

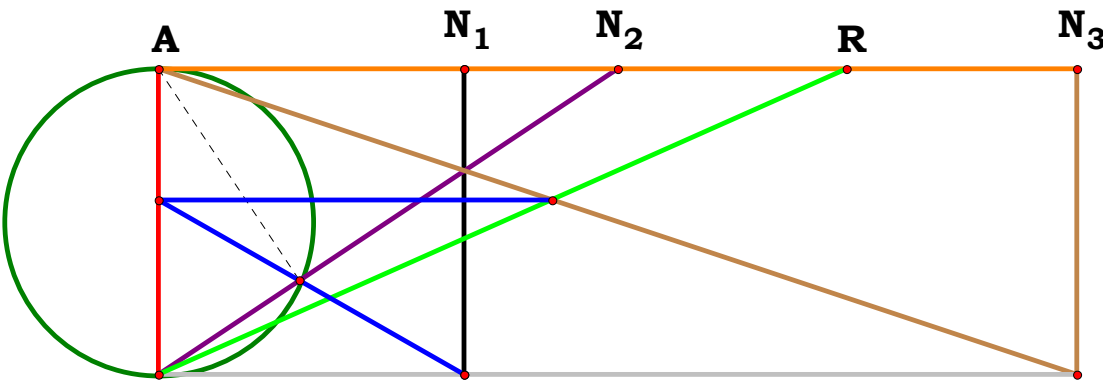
$$R - \frac{N_2 \cdot N_3 \cdot (N_1 \cdot N_2 - 1)}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^3 - A \cdot B \cdot N_u}{B^2 \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Y - o \cdot p)}{X \cdot p^2 \cdot q} = 0$$

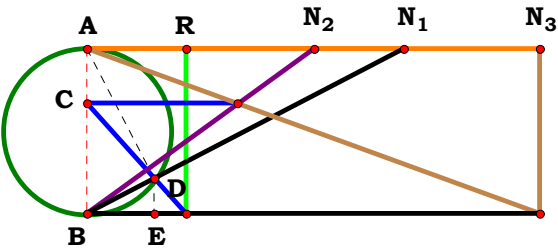


$N_1 = 1.00000$
 $N_2 = 1.50000$
 $N_3 = 3.00000$
 $R = 2.25000$

$$\frac{N_2 \cdot N_3 \cdot (N_1 \cdot N_2 - 1)}{N_1} \cdot R = 0.00000$$



2SMT8R8



$N_1 = 1.91519$
 $N_2 = 1.37279$
 $N_3 = 2.74321$
 $R = 0.60463$

Unit. $AB := 1$ Given. $N_1 := 1.91519$ $N_2 := 1.37279$ $N_3 := 2.74321$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BC := \frac{N_3}{N_2 + N_3} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$BD := \frac{AB^2}{BN_1} \quad DE := \frac{BD}{BN_1}$$

$$BE := N_1 \cdot DE \quad R := \frac{BE \cdot BC}{BC - DE}$$

$R = 0.604634$

Definitions.

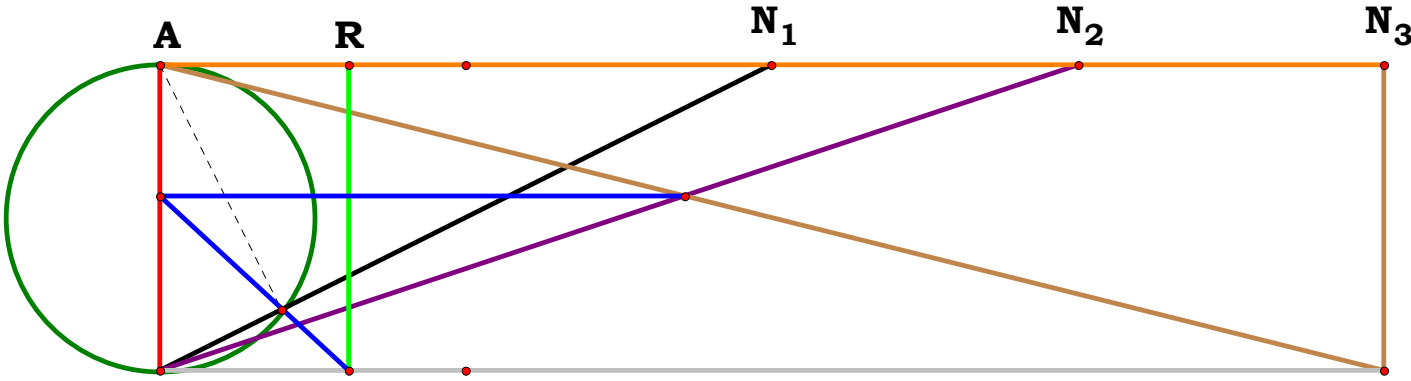
$$R - \frac{N_1 \cdot N_3}{N_1^2 \cdot N_3 - N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot B \cdot N_u}{B \cdot N_u^2 - A^2 \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

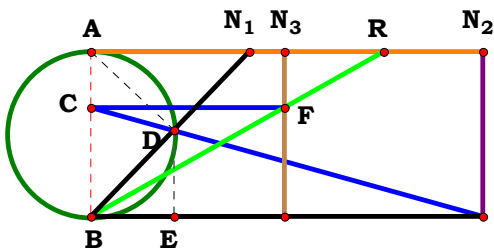
$$R - \frac{X \cdot Z \cdot o \cdot p}{X^2 \cdot Z \cdot p - Y \cdot o^2 \cdot q} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $R = 0.61538$
 $\frac{N_1 \cdot N_3}{N_1^2 \cdot N_3 - N_2} \cdot R = 0.00000$



2SMT8R9



$N_1 = 0.95630$
 $N_2 = 2.37042$
 $N_3 = 1.17412$
 $R = 1.77418$

Unit. $AB := 1$ Given. $N_1 := .95630$ $N_2 := 2.37042$ $N_3 := 1.17412$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{AB^2}{BN_1}$$

$$DE := \frac{BD}{BN_1} \quad BE := N_1 \cdot DE$$

$$BC := \frac{DE \cdot N_2}{N_2 - BE} \quad R := \frac{N_3}{BC}$$

$R = 1.774188$

Definitions.

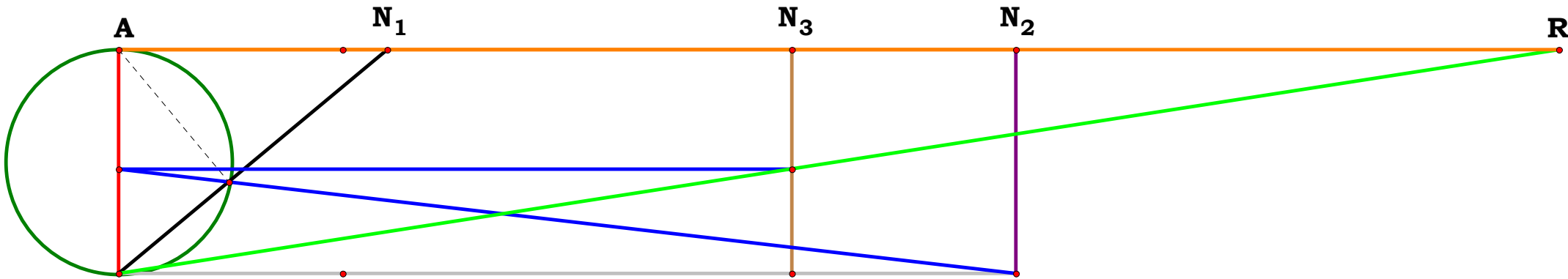
$$R - \frac{N_3 \cdot (N_1^2 \cdot N_2 - N_1 + N_2)}{N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

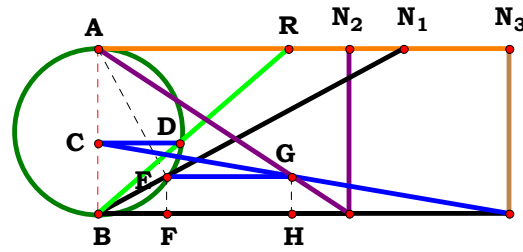
$$R - \frac{Z \cdot (Y \cdot X^2 - p \cdot X \cdot o + Y \cdot o^2)}{Y \cdot o^2 \cdot q} = 0$$



$N_1 = 1.20000$
 $N_2 = 4.00000$
 $N_3 = 3.00000$
 $R = 6.42000$
 $\frac{N_3 \cdot ((N_1^2 \cdot N_2 - N_1) + N_2)}{N_2} - R = 0.00000$



2SMT8R10



$N_1 = 1.84739$
 $N_2 = 1.51808$
 $N_3 = 2.49138$
 $R = 1.15469$

Unit. $AB := 1$ Given. $N_1 := 1.84739$ $N_2 := 1.51808$ $N_3 := 2.49138$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{AB^2}{BN_1}$$

$$EF := \frac{BE}{BN_1} \quad BH := N_2 \cdot (AB - EF)$$

$$BC := \frac{EF \cdot N_3}{N_3 - BH} \quad CD := \sqrt{BC \cdot (AB - BC)}$$

$$R := \frac{CD}{BC} \quad R = 1.154681$$

Definitions.

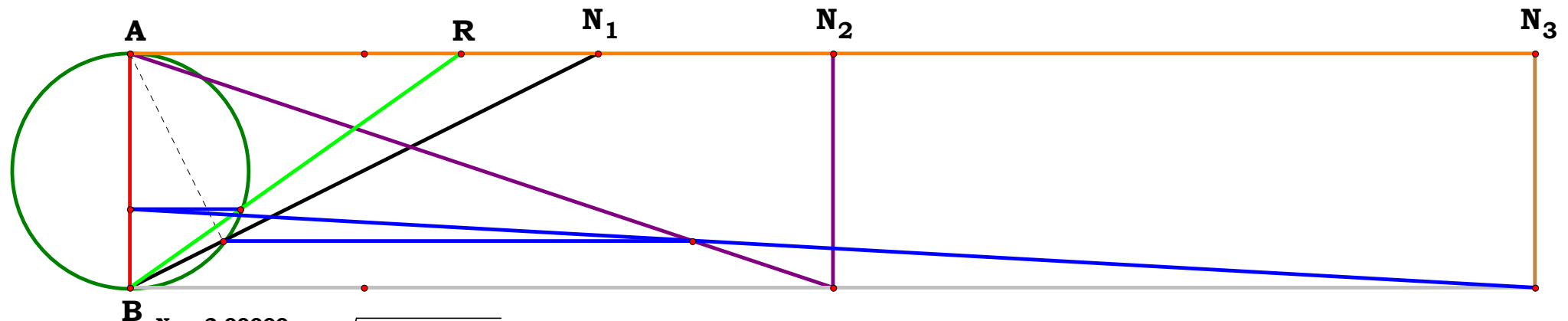
$$R - \frac{\sqrt{N_1^2 \cdot N_3 \cdot (N_3 - N_2)}}{N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot \sqrt{B - C}}{A \cdot \sqrt{B}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot \sqrt{Z^2 \cdot p - Y \cdot Z \cdot q}}{Z \cdot o \cdot \sqrt{p}} = 0$$

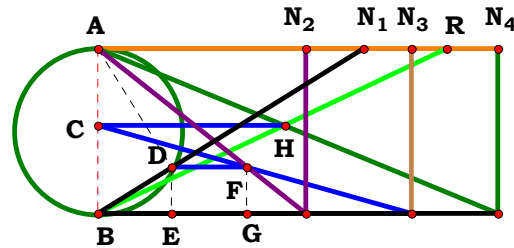


$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 6.00000$
 $R = 1.41421$

$$\frac{\sqrt{N_1^2 \cdot N_3 \cdot (N_3 - N_2)}}{N_3} - R = 0.00000$$



2SMT8R11



$N_1 = 1.60525$
 $N_2 = 1.25656$
 $N_3 = 1.90055$
 $N_4 = 2.42122$
 $R = 2.11406$

Unit. $AB := 1$ Given. $N_1 := 1.60525$ $N_2 := 1.25656$ $N_3 := 1.90055$ $N_4 := 2.42122$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{AB^2}{BN_1}$$

$$DE := \frac{BD}{BN_1} \quad BE := N_1 \cdot DE$$

$$BG := N_2 \cdot (AB - DE) \quad BC := \frac{DE \cdot N_3}{N_3 - BG}$$

$$CH := N_4 \cdot (AB - BC) \quad R := \frac{CH}{BC}$$

$$R = 2.11407$$

Definitions.

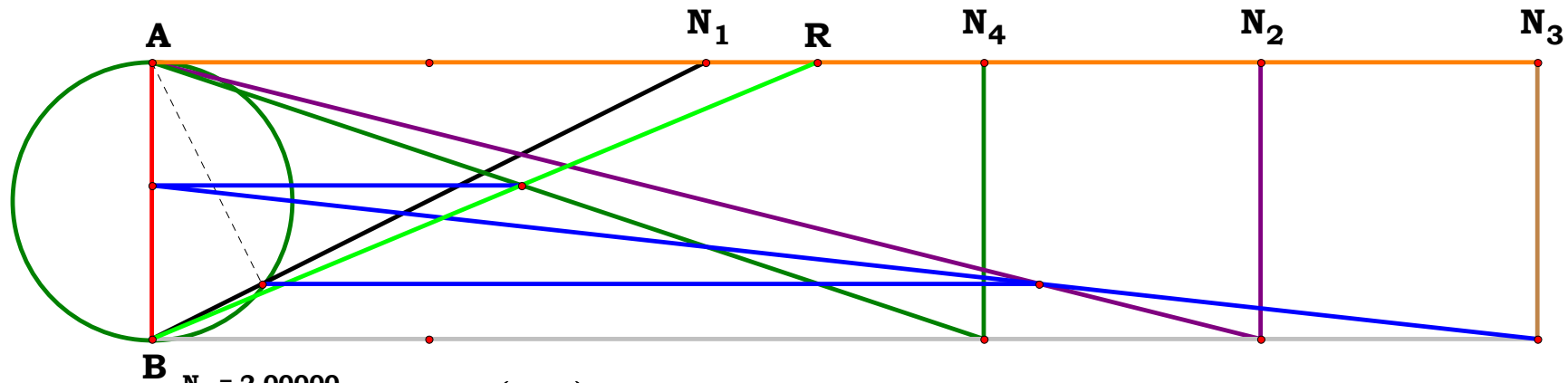
$$R - \frac{N_1^2 \cdot N_4 \cdot (N_3 - N_2)}{N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^3 \cdot (B - C)}{A^2 \cdot B \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W^2 \cdot Z \cdot (Y \cdot n - X \cdot o)}{Y \cdot m^2 \cdot n \cdot p} = 0$$

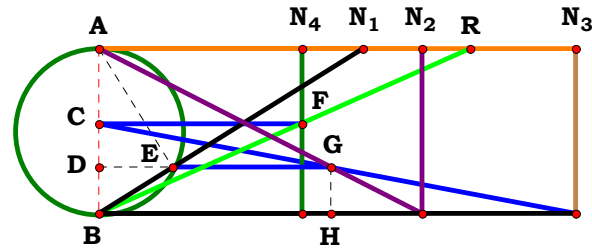


$N_1 = 2.00000$
 $N_2 = 4.00000$
 $N_3 = 5.00000$
 $N_4 = 3.00000$
 $R = 2.40000$

$$\frac{N_1^2 \cdot N_4 \cdot (N_3 - N_2)}{N_3} - R = 0.00000$$



2SMT8R12



$N_1 = 1.59556$
 $N_2 = 1.95394$
 $N_3 = 2.88850$
 $N_4 = 1.22987$
 $R = 2.24289$

Unit. $AB := 1$ Given. $N_1 := 1.59556$ $N_2 := 1.95394$ $N_3 := 2.88850$ $N_4 := 1.22987$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{AB^2}{BN_1}$$

$$BD := \frac{BE}{BN_1} \quad BH := N_2 \cdot (AB - BD)$$

$$BC := \frac{BD \cdot N_3}{N_3 - BH} \quad R := \frac{N_4}{BC}$$

$R = 2.242895$

Definitions.

$$R - \frac{N_4 \cdot [N_3 - N_1^2 \cdot (N_2 - N_3)]}{N_3} = 0$$

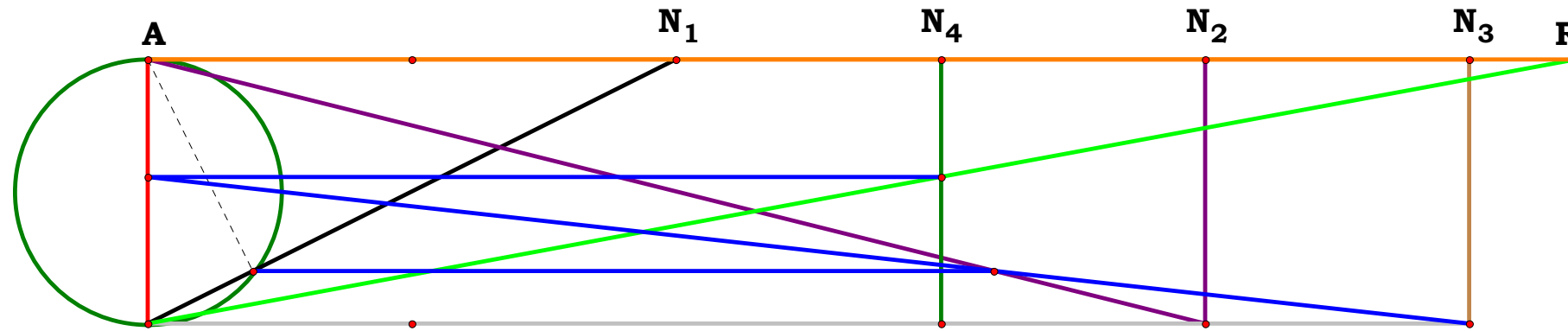
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^3 \cdot (B - C) + A^2 \cdot B \cdot N_u}{A^2 \cdot B \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W^2 \cdot Z \cdot (Y \cdot n - X \cdot o) + Y \cdot Z \cdot m^2 \cdot n}{Y \cdot m^2 \cdot n \cdot p} = 0$$



$N_1 = 2.00000$
 $N_2 = 4.00000$
 $N_3 = 5.00000$
 $N_4 = 3.00000$
 $R = 5.40000$

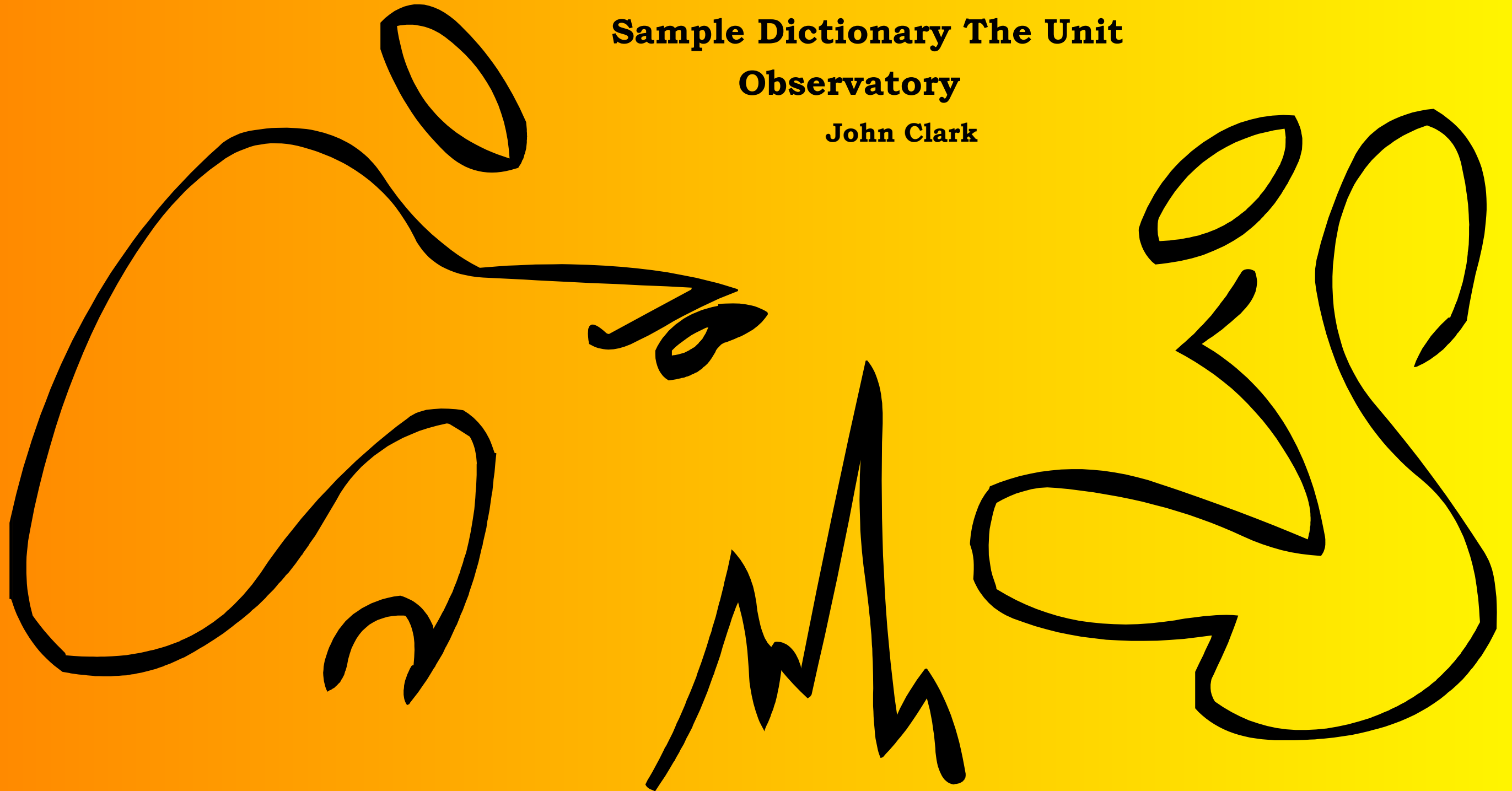
$$\frac{N_4 \cdot (N_3 - N_1^2 \cdot (N_2 - N_3))}{N_3} - R = 0.00000$$

Basic Analog Grammar

Sample Dictionary The Unit

Observatory

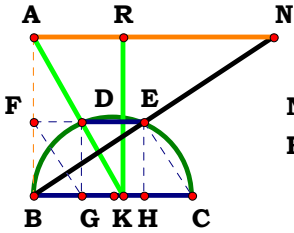
John Clark



John 312



30BT1R0



$N = 1.51515$
 $R = 0.56163$

Unit. $AB := 1$ Given. $N := 1.51515$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

Descriptions.

$BN := \sqrt{N^2 + AB^2}$ $BE := \frac{N \cdot AB}{BN}$

$EH := \frac{AB \cdot BE}{BN}$ $CE := \frac{AB^2}{BN}$

$CH := \sqrt{CE^2 - EH^2}$ $BG := CH$

$BK := \frac{BG \cdot AB}{AB - EH}$ $R := BK$

$R = 0.561631$

Definitions.

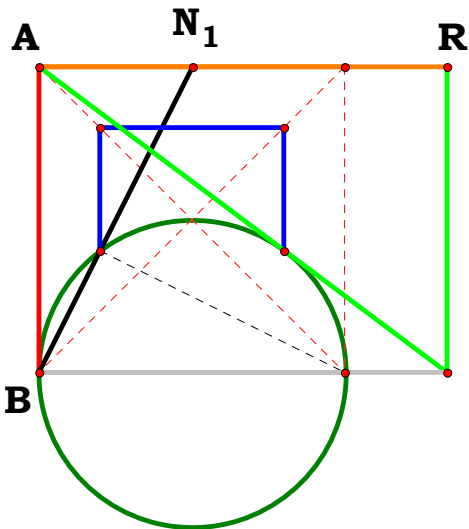
$R - \frac{1}{N^2 - N + 1} = 0$

$N - \frac{N_u}{A} = 0$

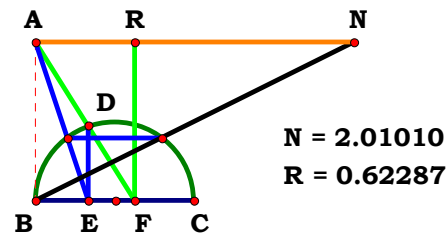
$R - \frac{A^2}{A^2 - A \cdot N_u + N_u^2} = 0$

$N - \frac{Z}{q} = 0$

$R - \frac{q^2}{Z^2 - Z \cdot q + q^2} = 0$



$N_1 = 0.50000$
 $R = 1.33333$
 $\frac{1}{(N_1^2 - N_1) + 1} \cdot R = 0.00000$



Unit. $AB := 1$ Given. $N := 2.01010$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BE := \frac{1}{N^2 - \left(\sqrt{N^2}\right) + 1} \quad CE := AB - BE$$

$$DE := \sqrt{BE \cdot CE} \quad BF := \frac{BE \cdot AB}{AB - DE}$$

$$R := BF \quad R = 0.622867$$

Definitions.

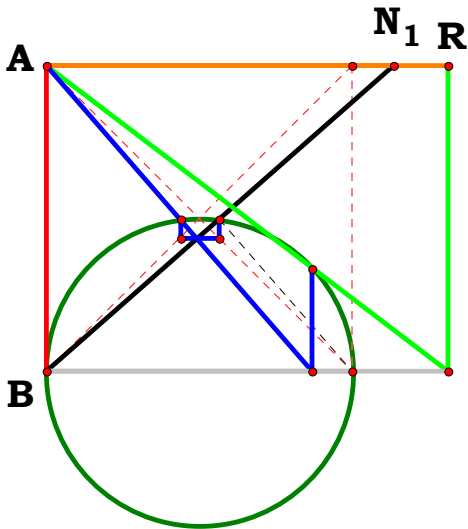
$$R - \frac{1}{\left(N^2 - N - \sqrt{N^2 - N + 1}\right)} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2}{A^2 + N_u \cdot \left(N_u - A\right) - A \cdot \sqrt{N_u \cdot \left(N_u - A\right)}} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{q^2}{Z^2 - q \cdot \sqrt{Z^2 - Z \cdot q} + q^2 - Z \cdot q} = 0$$



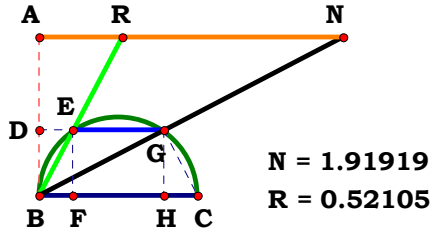
$$N_1 = 1.13333$$

$$R = 1.31168$$

$$\frac{1}{\left(N_1^2 - N_1 - \sqrt{N_1^2 - N_1}\right) + 1} - R = 0.00000$$



30BT1R2



$N = 1.91919$
 $R = 0.52105$

Unit. $AB := 1$ Given. $N := 1.91919$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

Descriptions.

$BN := \sqrt{AB^2 + N^2}$ $BG := \frac{N \cdot AB}{BN}$

$BH := \frac{N \cdot BG}{BN}$ $BF := AB - BH$

$BD := \frac{AB \cdot BG}{BN}$ $R := \frac{BF \cdot AB}{BD}$

$R = 0.521053$

Definitions.

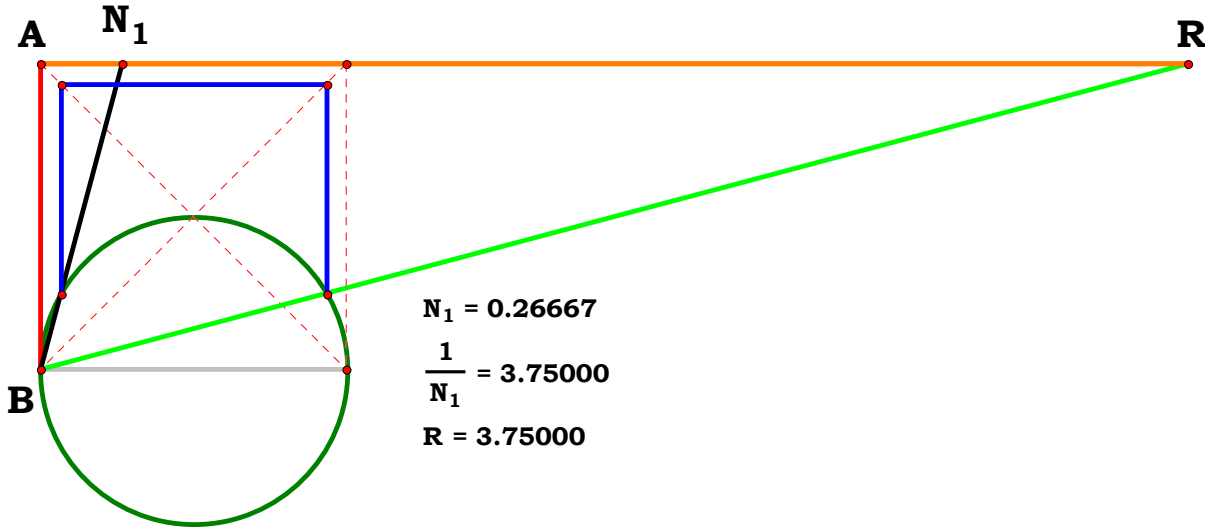
$R - \frac{1}{N} = 0$

$N - \frac{N_u}{A} = 0$

$R - \frac{A}{N_u} = 0$

$N - \frac{Z}{q} = 0$

$R - \frac{q}{Z} = 0$



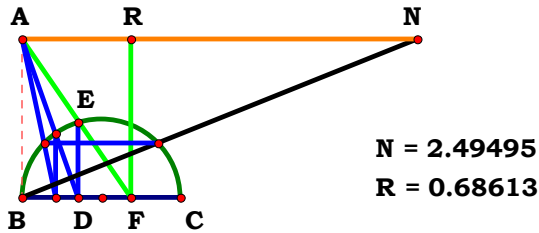
$N_1 = 0.26667$

$\frac{1}{N_1} = 3.75000$

$R = 3.75000$



30BT1R4



Unit. $AB := 1$ Given. $N := 2.49495$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BD := \frac{1}{N^2 - \sqrt{N^2} - \sqrt{N^2 - \sqrt{N^2} + 1}} \quad CD := AB - BD$$

$$DE := \sqrt{BD \cdot CD} \quad BF := \frac{BD \cdot AB}{AB - DE}$$

$$R := BF \quad R = 0.68613$$

Definitions.

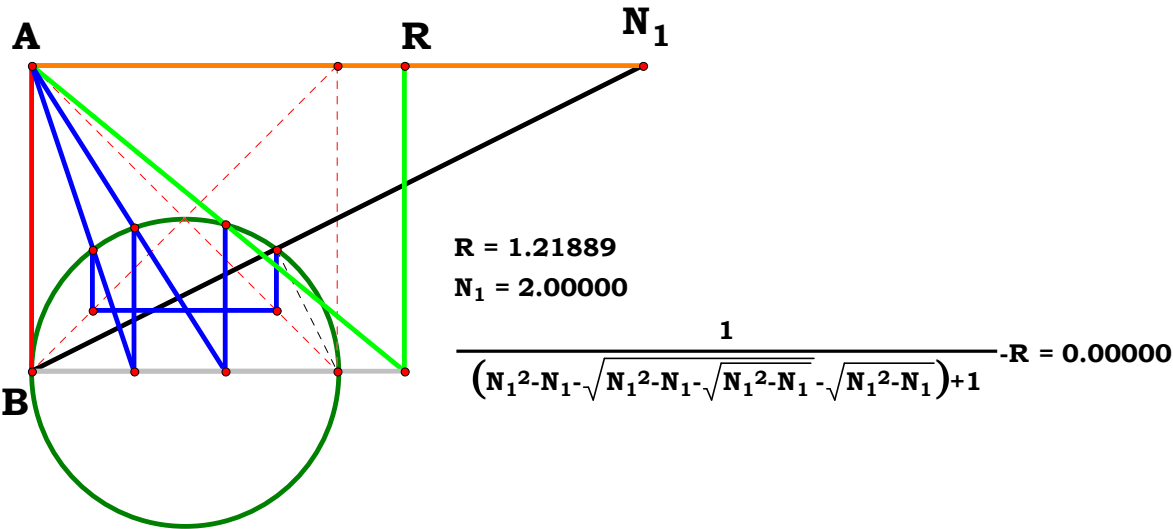
$$R - \frac{1}{N^2 - N - \sqrt{N^2 - N - \sqrt{N^2 - N - \sqrt{N^2 - N + 1}}}} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2}{A^2 - A \cdot \sqrt{N_u \cdot (N_u - A)} - A \cdot \sqrt{N_u \cdot (N_u - A)} + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{q^2}{Z^2 - q \cdot \sqrt{Z^2 - q \cdot \sqrt{Z^2 - Z \cdot q} - Z \cdot q - q \cdot \sqrt{Z^2 - Z \cdot q} + q^2 - Z \cdot q}} = 0$$





Descriptions.

$$BN := \sqrt{N^2 + AB^2} \quad BD := \frac{N \cdot AB}{BN}$$

$$DN := BN - BD \quad NR := \frac{BN \cdot DN}{N}$$

$$R := N - NR \quad R = 0.600806$$

Definitions.

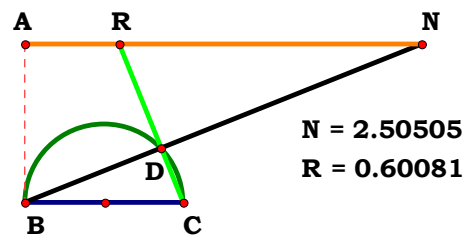
$$R - \frac{N - 1}{N} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{N_u - A}{N_u} = 0$$

$$N - \frac{Z}{q} = 0$$

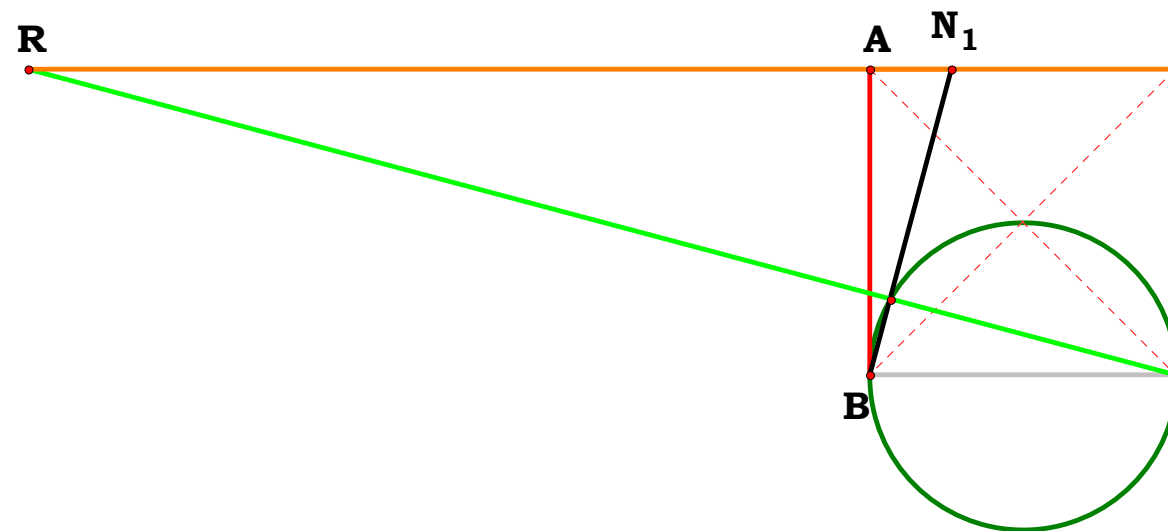
$$R - \frac{Z - q}{Z} = 0$$



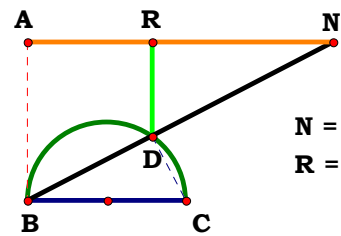
$$N = 2.50505$$
$$R = 0.60081$$

Unit. $AB := 1$ Given. $N := 2.50505$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$



$$N_1 = 0.26667$$
$$R = -2.75000$$
$$\frac{N_1 - 1}{N_1} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N := 1.92929$

$N = 1.92929$
 $R = 0.78823$ $N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

Descriptions.

$BD := \frac{N}{\left(N^2 + 1\right)^{\frac{1}{2}}}$ $BN := \sqrt{N^2 + AB^2}$

$R := \frac{N \cdot BD}{BN}$ $R = 0.788232$

Definitions.

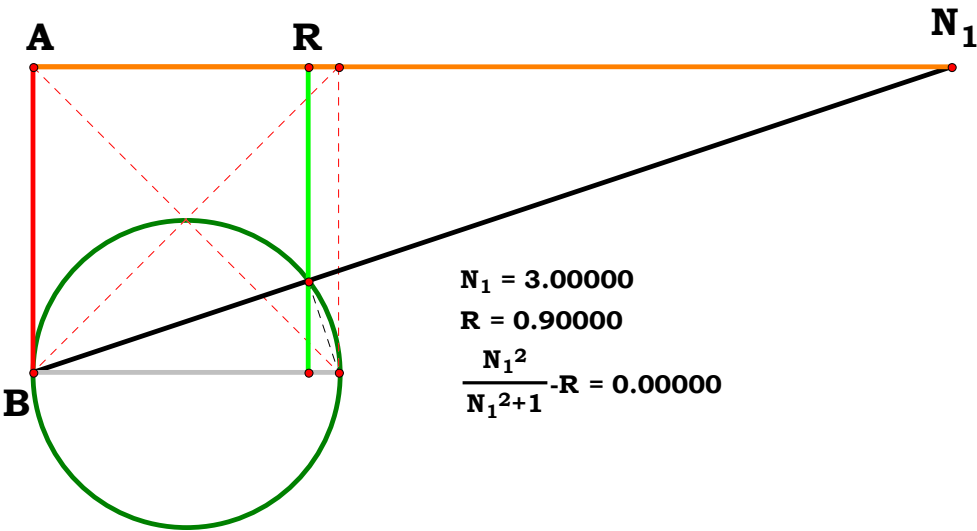
$R - \frac{N^2}{N^2 + 1} = 0$

$N - \frac{N_u}{A} = 0$

$R - \frac{N_u^2}{A^2 + N_u^2} = 0$

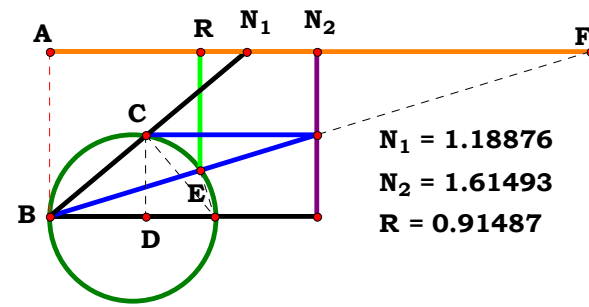
$N - \frac{Z}{q} = 0$

$R - \frac{Z^2}{Z^2 + q^2} = 0$



$N_1 = 3.00000$
 $R = 0.90000$
 $\frac{N_1^2}{N_1^2 + 1} - R = 0.00000$

30BT1R7



Unit. AB := 1 **Given.** N₁ := 1.18876 N₂ := 1.61493

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BC} := \frac{\mathbf{N}_1}{\mathbf{BN}_1}$$

$$\mathbf{CD} := \frac{\mathbf{BC}}{\mathbf{BN}_1} \quad \mathbf{AF} := \frac{\mathbf{N}_2}{\mathbf{CD}}$$

$$\mathbf{BF} := \sqrt{\mathbf{AB}^2 + \mathbf{AF}^2} \qquad \mathbf{BE} := \frac{\mathbf{AF}}{\mathbf{BF}}$$

$$\mathbf{R} := \mathbf{AF} \cdot \frac{\mathbf{BE}}{\mathbf{BF}} \quad \mathbf{R} = 0.914872$$

Definitions.

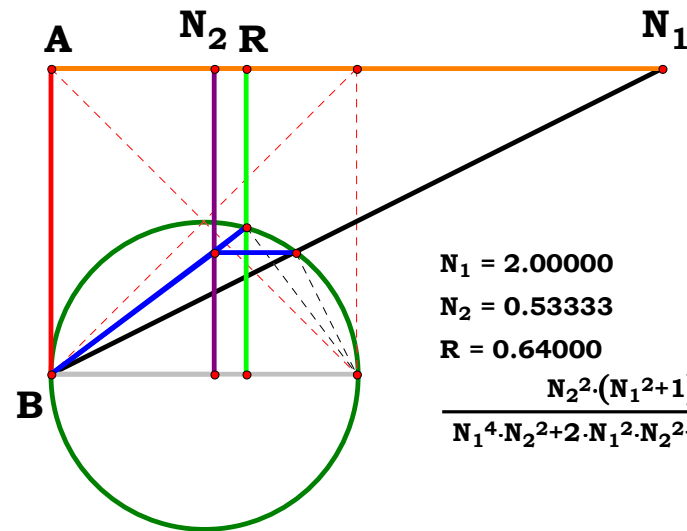
$$R - \frac{N_2^2 \cdot (N_1^2 + 1)^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{(\mathbf{A}^2 + \mathbf{N}_u^2)^2}{\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + \mathbf{N}_u^2 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{N}_u^2)} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{z^2 \cdot (y^2 + p^2)^2}{y^4 \cdot z^2 + 2 \cdot y^2 \cdot z^2 \cdot p^2 + y^2 \cdot p^2 \cdot q^2 + z^2 \cdot p^4} = 0$$



N₁ = 2.00000

$$N_2 = 0.53333$$

R = 0.64000

$$\frac{N_2^2 \cdot (N_1^2 + 1)^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} \cdot R = 0.00000$$

Descriptions.



$$\mathbf{BE} := \frac{\mathbf{1}}{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 + \mathbf{1}}}}}$$

$$\mathbf{DE} := \frac{\sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2}}}}}{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2 - \sqrt{\mathbf{N}^2}} + 1}}$$

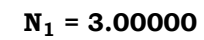
R = 1.213496

Definitions.

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

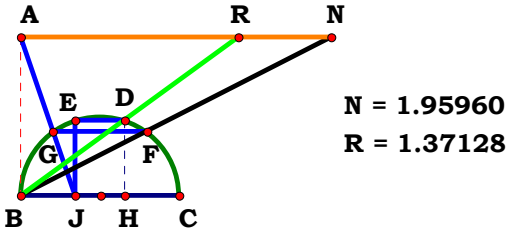
$$\mathbf{N} - \frac{\mathbf{Z}}{q} = \mathbf{0}$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z}^2 - \mathbf{q}} \cdot \sqrt{\mathbf{Z}^2 - \mathbf{Z} \cdot \mathbf{q} - \mathbf{Z} \cdot \mathbf{q}}}{\mathbf{q}} = 0$$



R = 1.88428

$$\sqrt{N_1^2 - N_1} - \sqrt{N_1^2 - N_1} - R = 0.00000$$



Unit. $AB := 1$ Given. $N := 1.95960$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$

$N = 1.95960$
 $R = 1.37128$

Descriptions.

$$BJ := \frac{1}{N^2 - \sqrt{N^2 + 1}}$$

$$BH := AB - BJ$$

$$EJ := \frac{\sqrt{N^2 - \sqrt{N^2 + 1}}}{N^2 - \sqrt{N^2 + 1}}$$

$$R := \frac{BH \cdot AB}{EJ}$$

$R = 1.371289$

Definitions.

$$R - \sqrt{N^2 - N} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{\sqrt{N_u \cdot (N_u - A)}}{A} = 0$$

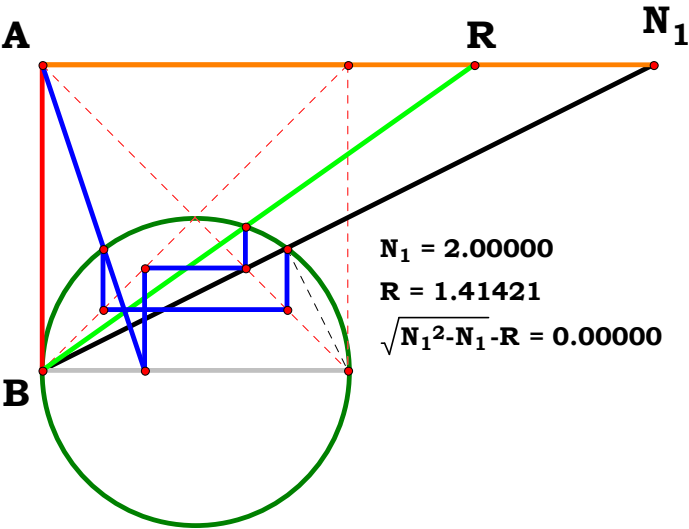
$$N - \frac{Z}{q} = 0$$

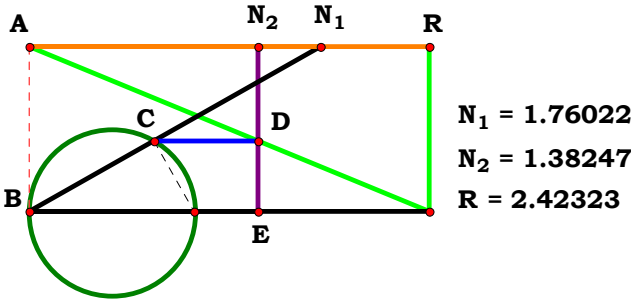
$$R - \frac{\sqrt{Z \cdot (Z - q)}}{q} = 0$$

$$N_1 = 2.00000$$

$$R = 1.41421$$

$$\sqrt{N_1^2 - N_1} - R = 0.00000$$





Unit. $AB := 1$ Given. $N_1 := 1.76022$ $N_2 := 1.38247$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$BN_1 := \sqrt{AB^2 + N_1^2}$ $BC := \frac{AB \cdot N_1}{BN_1}$

$DN_2 := AB - \frac{BC}{BN_1}$ $R := \frac{N_2}{DN_2}$

$R = 2.423227$

Definitions.

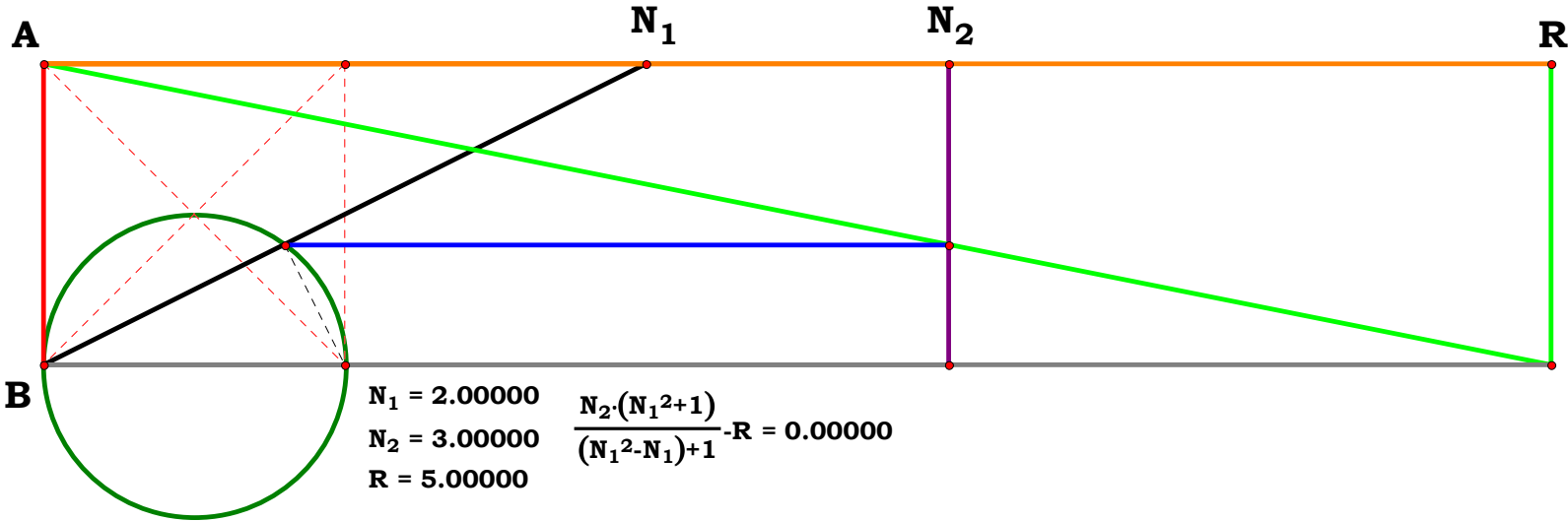
$R - \frac{N_2 \cdot (N_1^2 + 1)}{N_1^2 - N_1 + 1} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$

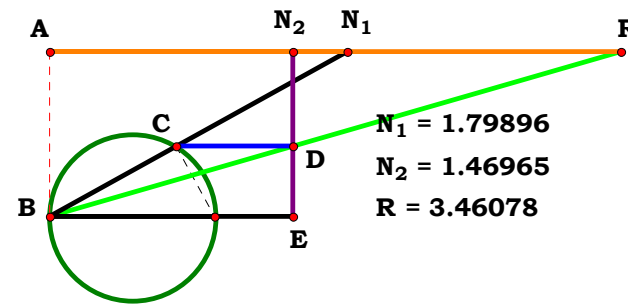
$R - \frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot N_u + N_u^2)} = 0$

$N_1 - \frac{Y}{p} = 0$ $N_2 - \frac{Z}{q} = 0$

$R - \frac{Z \cdot (Y^2 + p^2)}{q \cdot (Y^2 - Y \cdot p + p^2)} = 0$



30BT1R11



Unit. $AB := 1$ **Given.** $N_1 := 1.79896$ $N_2 := 1.46965$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BC} := \frac{\mathbf{N}_1}{\mathbf{BN}_1}$$

$$\mathbf{DE} := \frac{\mathbf{BC}}{\mathbf{BN}_1} \qquad \mathbf{R} := \frac{\mathbf{N}_2}{\mathbf{DE}}$$

R = 3.460786

Definitions.

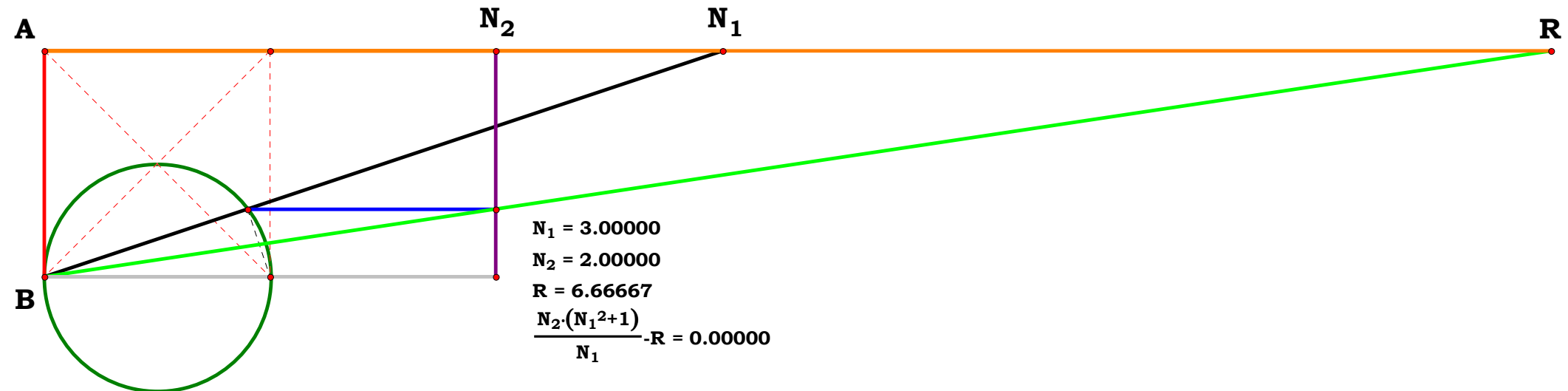
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 + \mathbf{1})}{\mathbf{N}_1} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^2 + \mathbf{N}_u^2}{\mathbf{A} \cdot \mathbf{B}} = 0$$

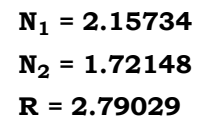
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y}^2 + \mathbf{p}^2)}{\mathbf{Y} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$

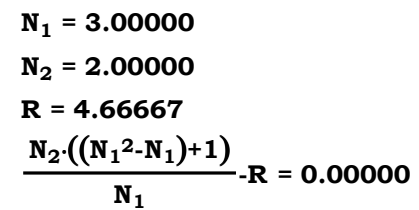


$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ R &= 6.66667 \\ \frac{N_2 \cdot (N_1^2 + 1)}{N_1} \cdot R &= 0.00000 \end{aligned}$$

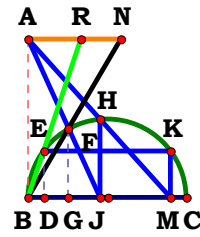
Descriptions.


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

$$\mathbf{R} := \frac{\mathbf{CE}}{\mathbf{BC}} \quad \mathbf{R} = 2.790302$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y}^2 - \mathbf{Y} \cdot \mathbf{p} + \mathbf{p}^2)}{\mathbf{Y} \cdot \mathbf{p} \cdot \mathbf{q}} = \mathbf{0}$$


30BT1R13


$$\begin{array}{l} \mathbf{N} = 0.58586 \\ \mathbf{R} = 0.32886 \end{array} \quad \mathbf{N}_{\mathbf{u}} := 3 \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$
$$\mathbf{FG} := \frac{\mathbf{N}}{\mathbf{N}^2 + 1} \qquad \mathbf{BG} := \frac{\mathbf{N} \cdot \mathbf{FG}}{\mathbf{AB}}$$

$$\mathbf{BJ} := \frac{\mathbf{BG} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{FG}} \quad \mathbf{CJ} := \mathbf{AB} - \mathbf{BJ}$$

$$\mathbf{HJ} := \sqrt{\mathbf{BJ} \cdot \mathbf{CJ}} \qquad \mathbf{BM} := \frac{\mathbf{BJ} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{HJ}}$$

$$\mathbf{CM} := \mathbf{AB} - \mathbf{BM} \quad \mathbf{KM} := \sqrt{\mathbf{BM} \cdot \mathbf{CM}}$$

$$\mathbf{BD} := \mathbf{CM} \quad \mathbf{DE} := \mathbf{KM}$$

$$R := \frac{BD \cdot AB}{DE} \quad R = 0.328848$$

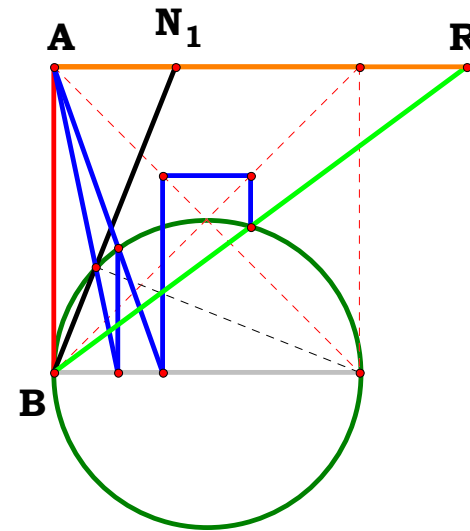
$$\mathbf{R} - \frac{\sqrt{1 - \mathbf{N}} \cdot \sqrt{1 - \mathbf{N} - \mathbf{N}}}{\mathbf{N}} = \mathbf{0}$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}}{\mathbf{N}_{\mathbf{u}}} = \mathbf{0}$$

$$\mathbf{N} - \frac{\mathbf{Z}}{q} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{q} \cdot \sqrt{\mathbf{q}^{\frac{3}{2}}} - \mathbf{z} \cdot \sqrt{\mathbf{q}} - \mathbf{z} \cdot \sqrt{\mathbf{q} - \mathbf{z}}}{\mathbf{z} \cdot \sqrt{\mathbf{q}^{\frac{3}{2}}}} = 0$$



$$\frac{\sqrt{1-N_1} \cdot \sqrt{1-N_1-N_1}}{N_1} - R = 0.00000$$



Descriptions.

$$CG := \frac{1}{N^2 + 1} \quad BF := CG$$

$$R := BF \quad R = 0.236254$$

Definitions.

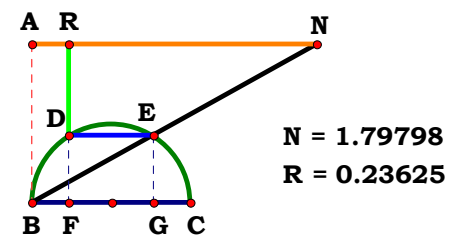
$$R - \frac{1}{N^2 + 1} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2}{A^2 + N_u^2} = 0$$

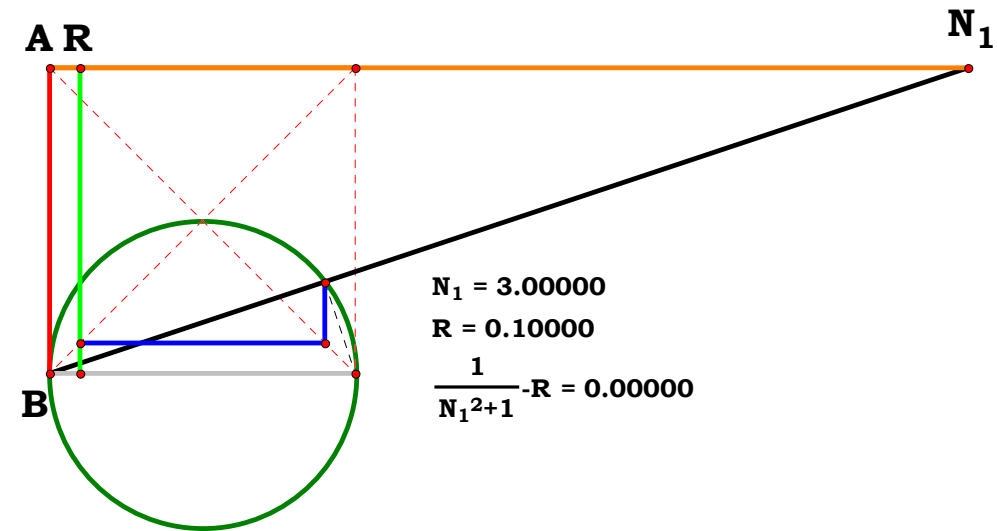
$$N - \frac{Z}{q} = 0$$

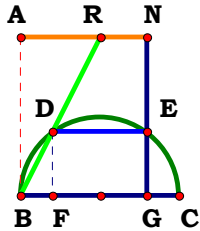
$$R - \frac{q^2}{Z^2 + q^2} = 0$$



Unit. $AB := 1$ Given. $N := 1.79798$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$





$$\begin{aligned}R &= 0.79798 \\ R &= 0.50315\end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N := .79798$$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BG := N \quad CG := AB - N$$

$$EG := \sqrt{BG \cdot CG} \quad BF := CG$$

$$DF := EG \quad R := \frac{BF \cdot AB}{DF}$$

$$R = 0.503154$$

Definitions.

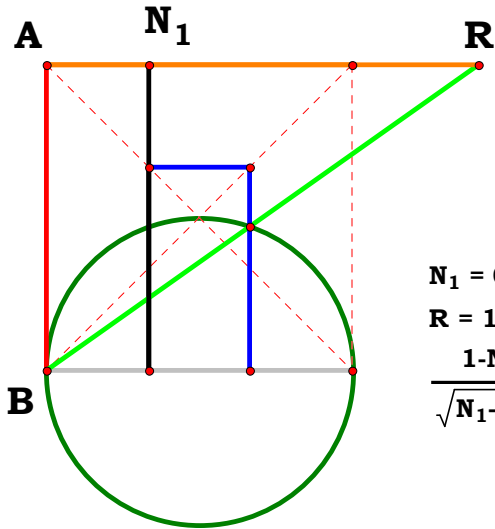
$$R - \frac{1 - N}{\sqrt{N - N^2}} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A - N_u}{\sqrt{N_u \cdot (A - N_u)}} = 0$$

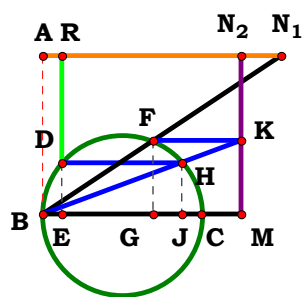
$$N - \frac{Z}{q} = 0$$

$$R - \frac{(q - Z)}{\sqrt{Z \cdot q - Z^2}} = 0$$



$$\begin{aligned}N_1 &= 0.33333 \\ R &= 1.41421 \\ \frac{1 - N_1}{\sqrt{N_1 - N_1^2}} - R &= 0.00000\end{aligned}$$

30BT02R0



$N_1 = 1.50505$
 $N_2 = 1.25253$
 $R = 0.11928$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{\mathbf{BN}_1} \quad \mathbf{BK} := \sqrt{\mathbf{FG}^2 + \mathbf{N}_2^2}$$

$$\mathbf{BH} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{BK}} \quad \mathbf{BJ} := \frac{\mathbf{N}_2 \cdot \mathbf{BH}}{\mathbf{BK}}$$

R := AB - BJ R = 0.119276

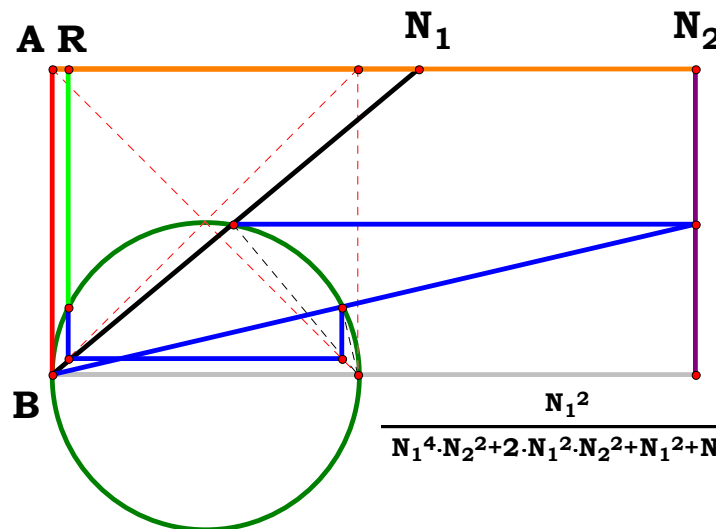
$$R - \frac{N_1^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A^2 \cdot B^2}{A^4 + A^2 \cdot B^2 + N_u^2 \cdot (2 \cdot A^2 + N_u^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{p} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{q} = 0$$

$$R - \frac{Y^2 \cdot p^2 \cdot q^2}{Y^4 \cdot Z^2 + 2 \cdot Y^2 \cdot Z^2 \cdot p^2 + Y^2 \cdot p^2 \cdot q^2 + Z^2 \cdot p^4} = 0$$



$N_1 = 1.20000$
 $N_2 = 2.10000$
 $R = 0.05199$

$$\frac{N_1^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} \cdot R = 0.00000$$



3OBT2R1

Descriptions.

$$BN_1 := \sqrt{N_1^2 + AB^2} \quad BF := \frac{N_1 \cdot AB}{BN_1}$$

$$FH := \frac{AB \cdot BF}{BN_1} \quad BP := \frac{N_2 \cdot AB}{AB - FH}$$

$$BK := \frac{N_1 \cdot BP}{N_1 + BP} \quad R := (1 - BK)$$

$$R = 0.09797$$

Definitions.

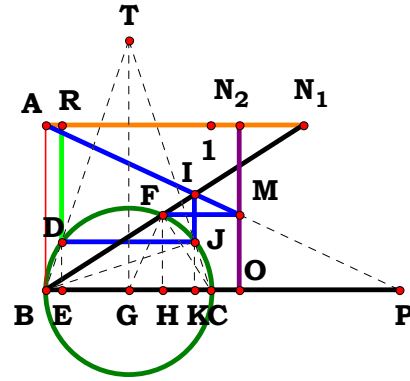
$$R - \frac{(1 - N_2) \cdot (N_1^3 - N_1^2 + N_1) + N_2}{N_1^3 - (1 - N_2) \cdot N_1^2 + N_1 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{(A + B) \cdot N_u^2 - N_u^3 + A \cdot (A - N_u) \cdot (A + B)}{B \cdot (A^2 - A \cdot N_u + N_u^2) + A \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (p - Y) \cdot (Y^2 + p^2) + Y \cdot q \cdot (Y^2 - Y \cdot p + p^2)}{q \cdot Y^3 + Y^2 \cdot p \cdot (Z - q) + p^2 \cdot (Y \cdot q + Z \cdot p)} = 0$$



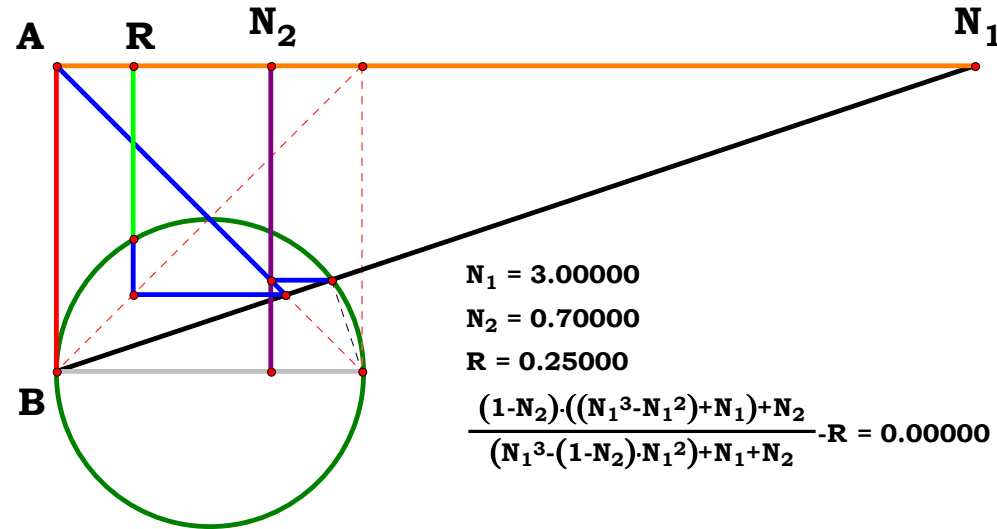
$$N_1 = 1.55688$$

$$N_2 = 1.16939$$

$$R = 0.09797$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.55688 \quad N_2 := 1.16939$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$



$$N_1 = 3.00000$$

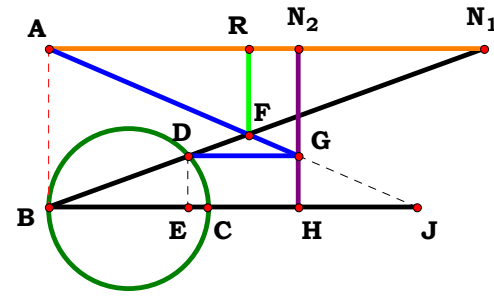
$$N_2 = 0.70000$$

$$R = 0.25000$$

$$\frac{(1 - N_2) \cdot ((N_1^3 - N_1^2) + N_1) + N_2}{(N_1^3 - (1 - N_2) \cdot N_1^2) + N_1 + N_2} - R = 0.00000$$



30BT02R2



$$\begin{aligned} N_1 &= 2.74747 \\ N_2 &= 1.57576 \\ R &= 1.25846 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.74747 \quad N_2 := 1.57576$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BJ := \frac{N_2 \cdot AB}{AB - DE}$$

$$R := \frac{N_1 \cdot BJ}{N_1 + BJ} \quad R = 1.258457$$

Definitions.

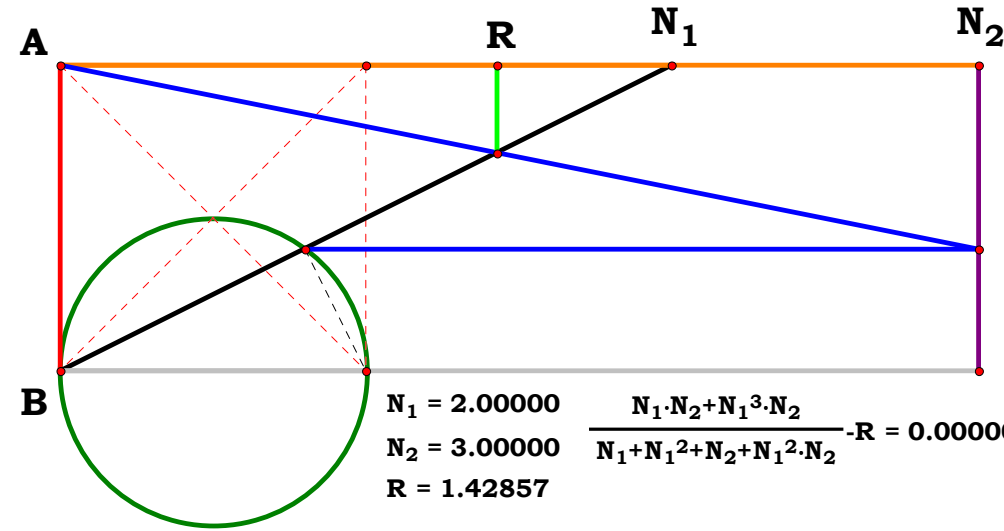
$$R - \frac{N_1 \cdot N_2 + N_1^3 \cdot N_2}{N_1 + N_1^3 - N_1^2 + N_2 + N_1^2 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u} = 0$$

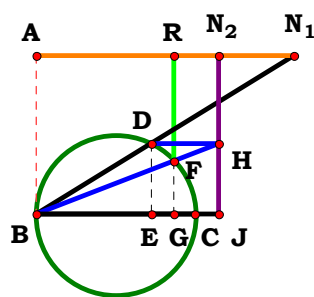
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (Y^2 + p^2)}{Z \cdot p^3 + Y^3 \cdot q + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ R &= 1.42857 \end{aligned} \quad \frac{N_1 \cdot N_2 + N_1^3 \cdot N_2}{N_1 + N_1^2 + N_2 + N_1^2 \cdot N_2} \cdot R = 0.00000$$

30BT2R3



Unit. AB := 1 Given. $N_1 := 1.62626$ $N_2 := 1.15152$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{BH} := \sqrt{\mathbf{N}_2^2 + \mathbf{DE}^2}$$

$$\mathbf{BF} := \frac{N_2 \cdot \mathbf{AB}}{\mathbf{BH}} \quad \mathbf{R} := \frac{N_2 \cdot \mathbf{BF}}{\mathbf{BH}}$$

Definitions.

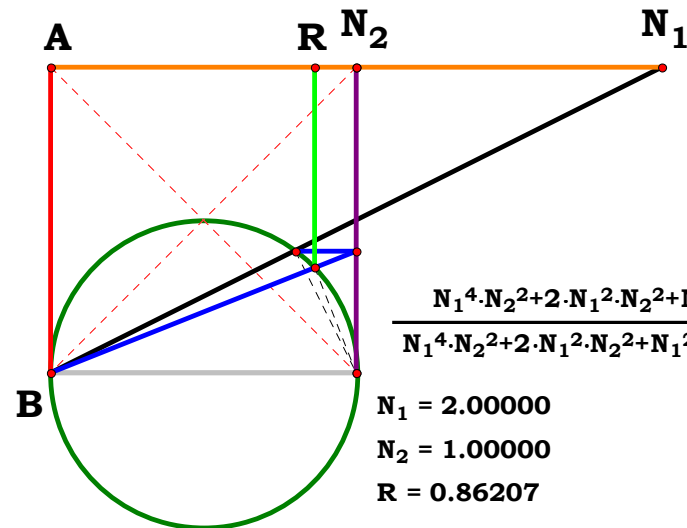
$$R - \frac{N_2^2 \cdot (N_1^2 + 1)^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\left(\mathbf{A}^2 + \mathbf{N}_u^2\right)^2}{\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^2 + \mathbf{N}_u^4} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{Z^2 \cdot (Y^2 + P^2)^2}{Y^4 \cdot Z^2 + 2 \cdot Y^2 \cdot Z^2 \cdot P^2 + Y^2 \cdot P^2 \cdot Q^2 + Z^2 \cdot P^4} = 0$$

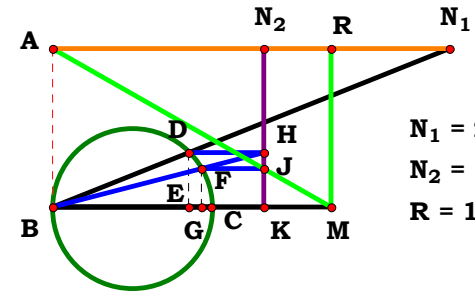


$$\frac{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_2^2}{N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2} \cdot R = 0.00000$$

N₁ = 2.00000

N₂ = 1.00000

R = 0.86207



$N_1 = 2.50505$
 $N_2 = 1.33333$
 $R = 1.75924$

Unit. $AB := 1$ Given. $N_1 := 2.50505$ $N_2 := 1.33333$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BH := \sqrt{DE^2 + N_2^2}$$

$$BF := \frac{N_2 \cdot AB}{BH} \quad FG := \frac{DE \cdot BF}{BH}$$

$$R := \frac{N_2 \cdot AB}{AB - FG} \quad R = 1.759238$$

Definitions.

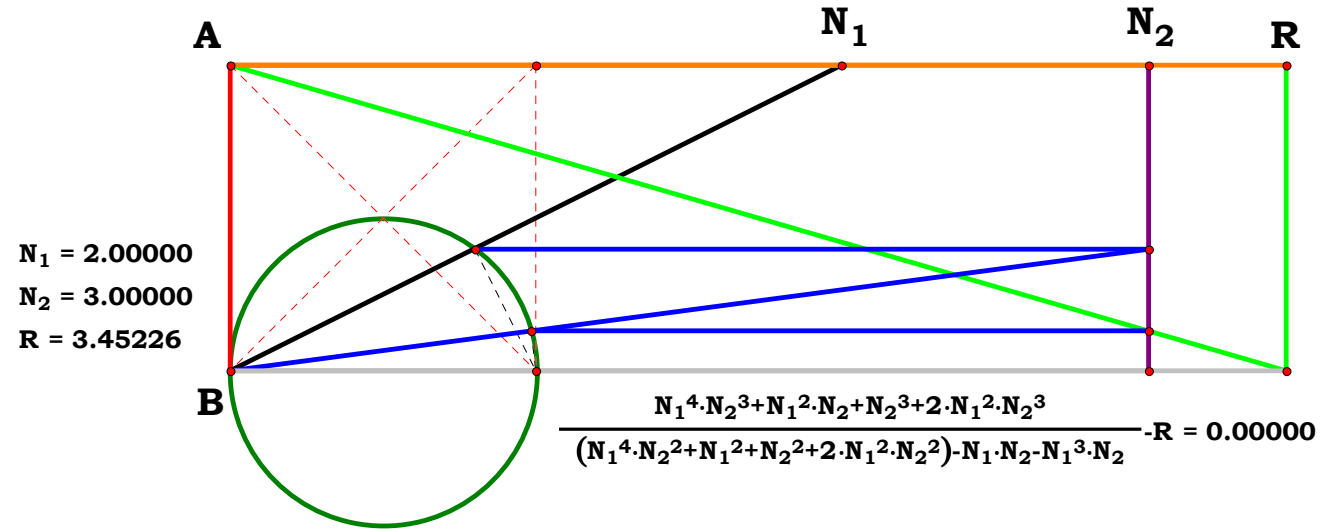
$$R - \frac{N_2 \cdot (N_1^4 \cdot N_2^2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 + N_2^2)}{N_1^4 \cdot N_2^2 - N_1^3 \cdot N_2 + 2 \cdot N_1^2 \cdot N_2^2 + N_1^2 - N_1 \cdot N_2 + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A^2 \cdot N_u \cdot (A^2 + B^2) + N_u^3 \cdot (2 \cdot A^2 + N_u^2)}{A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^4 \cdot Z^3 + 2 \cdot Y^2 \cdot Z^3 \cdot p^2 + Y^2 \cdot Z \cdot p^2 \cdot q^2 + Z^3 \cdot p^4}{Y^4 \cdot Z^2 \cdot q - Y^3 \cdot Z \cdot p \cdot q^2 + 2 \cdot Y^2 \cdot Z^2 \cdot p^2 \cdot q + Y^2 \cdot p^2 \cdot q^3 - Y \cdot Z \cdot p^3 \cdot q^2 + Z^2 \cdot p^4 \cdot q} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $R = 3.45226$

$$\frac{N_1^4 \cdot N_2^3 + N_1^2 \cdot N_2 + N_2^3 + 2 \cdot N_1^2 \cdot N_2^3}{(N_1^4 \cdot N_2^2 + N_1^2 + N_2^2 + 2 \cdot N_1^2 \cdot N_2^2) - N_1 \cdot N_2 - N_1^3 \cdot N_2} \cdot R = 0.00000$$



30BT2R5

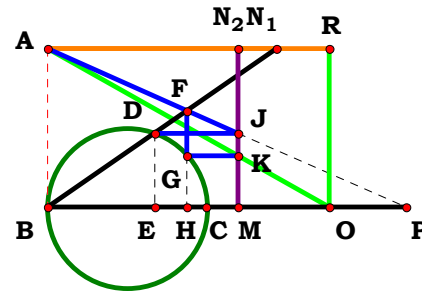
Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BP := \frac{N_2 \cdot AB}{AB - DE}$$

$$BH := \frac{N_1 \cdot BP}{N_1 + BP} \quad GH := \sqrt{BH \cdot (AB - BH)}$$

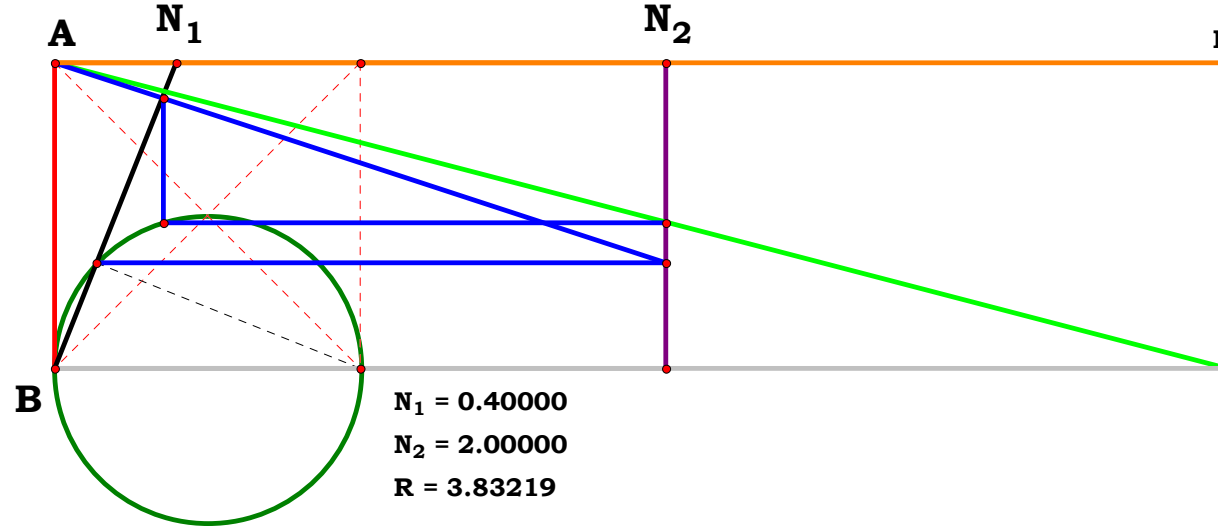
$$R := \frac{N_2 \cdot AB}{AB - GH} \quad R = 1.777157$$



$$N_1 = 1.44444 \\ N_2 = 1.20202 \\ R = 1.77715$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.44444 \quad N_2 := 1.20202$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$



$$N_1 = 0.40000 \\ N_2 = 2.00000 \\ R = 3.83219$$

$$\frac{N_2 \cdot (((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^2) + N_1^3)}{(((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^2) + N_1^3) - \sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1)} \cdot (((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^3 \cdot N_2 - N_1^2) + N_1^3) - N_1 \cdot N_2} \cdot R = 0.00000$$

Definitions.

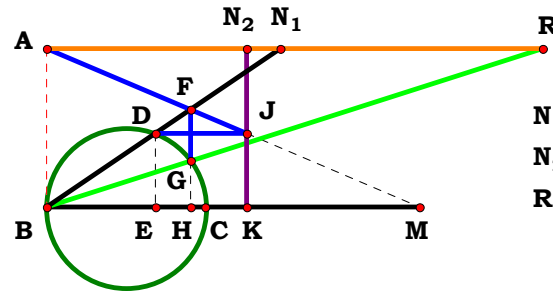
$$R - \frac{N_2 \cdot (N_1 + N_2 + N_1^2 \cdot N_2 - N_1^2 + N_1^3)}{N_1 + N_2 + N_1^2 \cdot N_2 - N_1^2 + N_1^3 - \sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1)} \cdot (N_1 + N_2 + N_1^2 \cdot N_2 - N_1^3 \cdot N_2 - N_1^2 + N_1^3 - N_1 \cdot N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}{B \cdot [A \cdot N_u^3 - \sqrt{N_u^3 \cdot (A + B)} \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4) - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + N_u \cdot [A^3 + B \cdot (A^2 - A \cdot N_u + N_u^2)]]] = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Z \cdot p^3 + Y^3 \cdot q + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q)}{q \cdot [Z \cdot p^3 - \sqrt{Y \cdot Z \cdot (Y^2 + p^2)} \cdot (Z \cdot p^3 - Y^3 \cdot Z + Y^3 \cdot q - Y \cdot Z \cdot p^2 + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q) + Y^3 \cdot q + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q]} = 0$$



$$\begin{aligned} N_1 &:= 1.47475 \\ N_2 &:= 1.26263 \\ R &:= 3.12814 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.47475 \quad N_2 := 1.26263$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

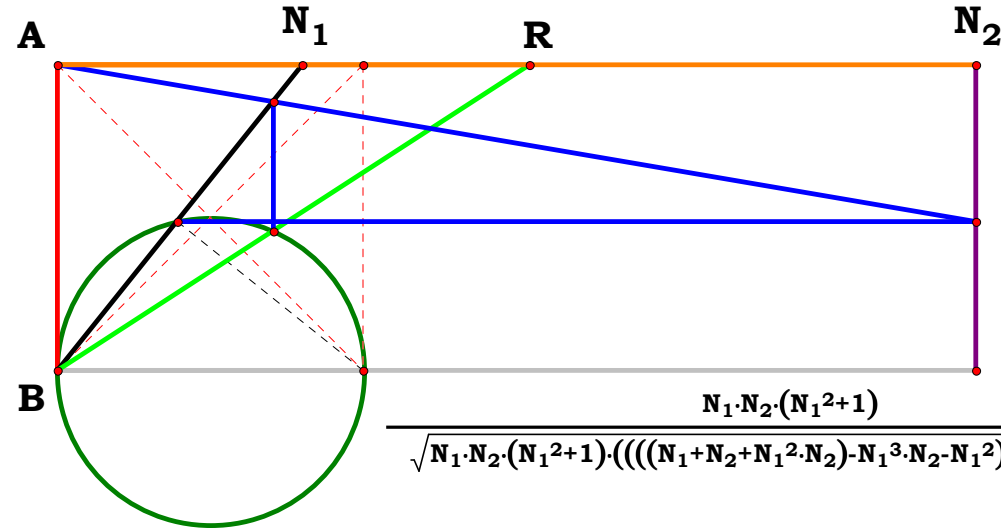
Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BM := \frac{N_2 \cdot AB}{AB - DE}$$

$$BH := \frac{N_1 \cdot BM}{N_1 + BM} \quad GH := \sqrt{BH \cdot (AB - BH)}$$

$$R := \frac{BH \cdot AB}{GH} \quad R = 3.128177$$



$$\begin{aligned} N_1 &= 0.80000 \\ N_2 &= 3.00000 \\ R &= 1.54169 \end{aligned}$$

$$\frac{N_1 \cdot N_2 \cdot (N_1^2 + 1)}{\sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1) \cdot (((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^3 \cdot N_2 - N_1^2 + N_1^3) - N_1 \cdot N_2)}} \cdot R = 0.00000$$

Definitions.

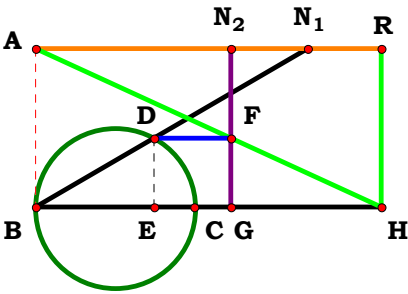
$$R - \frac{N_1 \cdot N_2 \cdot (N_1^2 + 1)}{\sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1) \cdot (N_1 + N_2 + N_1^2 \cdot N_2 - N_1^3 \cdot N_2 - N_1^2 + N_1^3 - N_1 \cdot N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{N_u^3 \cdot (A^2 + N_u^2) \cdot [(A^2 - A \cdot N_u + N_u^2) \cdot (A + B) - N_u^3]}} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (Y^2 + p^2)}{\sqrt{Y \cdot Z \cdot (Y^2 + p^2) \cdot (Z \cdot p^3 - Y^3 \cdot Z + Y^3 \cdot q - Y \cdot Z \cdot p^2 + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q)}} = 0$$



$$\begin{aligned} N_1 &= 1.71717 \\ N_2 &= 1.23232 \\ R &= 2.18061 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 1.71717 & N_2 &:= 1.23232 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & Y &:= 20 & Z &:= 19 & p &:= \frac{Y}{N_1} & q &:= \frac{Z}{N_2} \end{aligned}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad R := \frac{N_2 \cdot AB}{AB - DE}$$

$$R = 2.180606$$

Definitions.

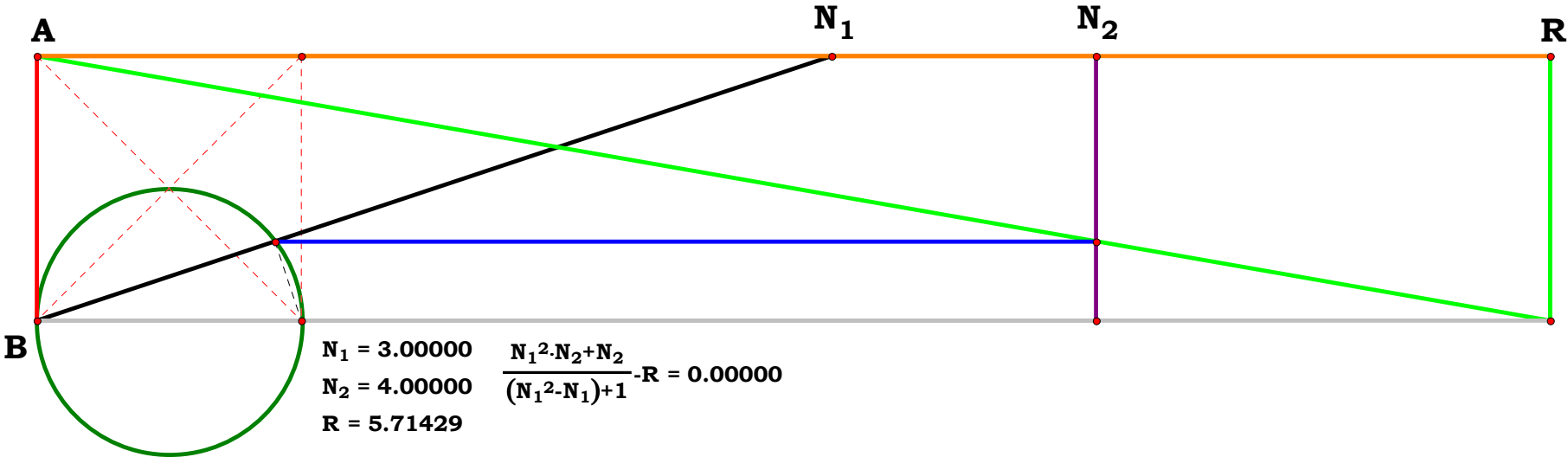
$$R - \frac{N_1^2 \cdot N_2 + N_2}{N_1^2 - N_1 + 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

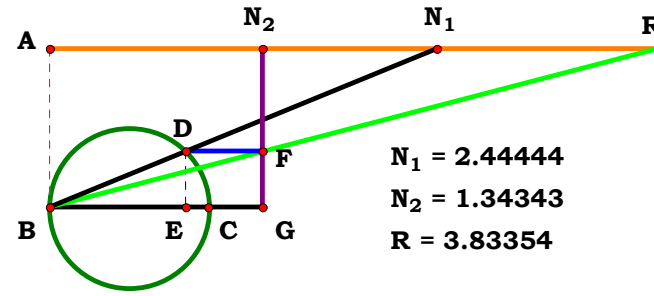
$$R - \frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot N_u + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y^2 + p^2)}{q \cdot (Y^2 - Y \cdot p + p^2)} = 0$$



30BT2R8



Unit. AB := 1 **Given.** N₁ := 2.44444 N₂ := 1.34343

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{R} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{DE}}$$

R = 3.83352

Definitions.

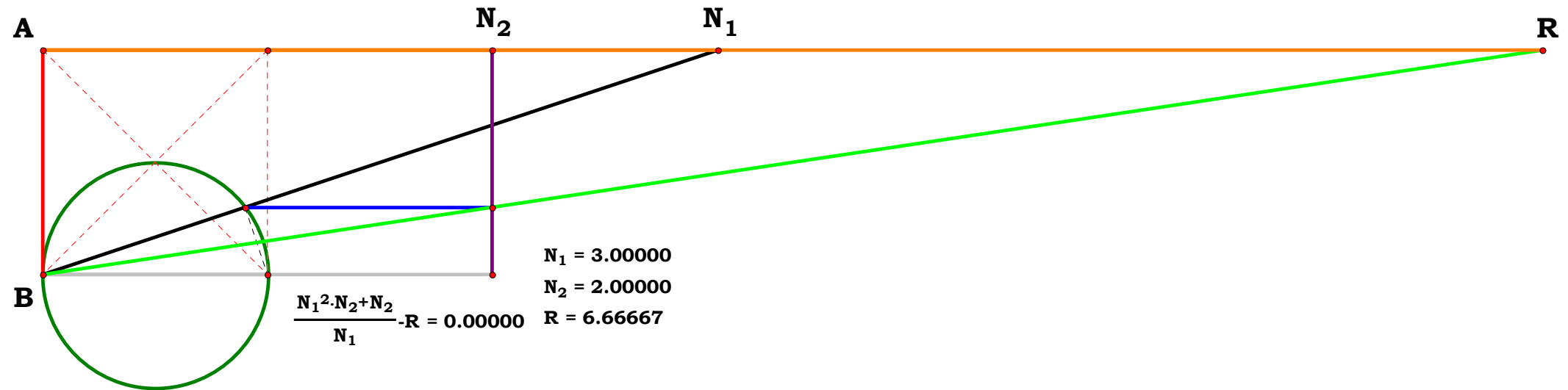
$$\mathbf{R} - \frac{\mathbf{N}_1^2 \cdot \mathbf{N}_2 + \mathbf{N}_2}{\mathbf{N}_1} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{A}^2 + \mathbf{N}_u^2}{\mathbf{A} \cdot \mathbf{B}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

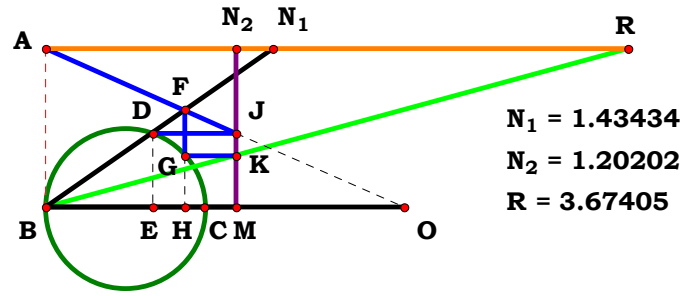
$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y}^2 + \mathbf{p}^2)}{\mathbf{Y} \cdot \mathbf{p} \cdot \mathbf{q}} = \mathbf{0}$$



N₁ = 3.00000

N₂ = 2.00000

R = 6.66667



Unit. $AB := 1$ Given. $N_1 := 1.43434$ $N_2 := 1.20202$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BO := \frac{N_2 \cdot AB}{AB - DE}$$

$$BH := \frac{N_1 \cdot BO}{N_1 + BO} \quad GH := \sqrt{BH \cdot (AB - BH)}$$

$$R := \frac{N_2 \cdot AB}{GH} \quad R = 3.674031$$

Definitions.

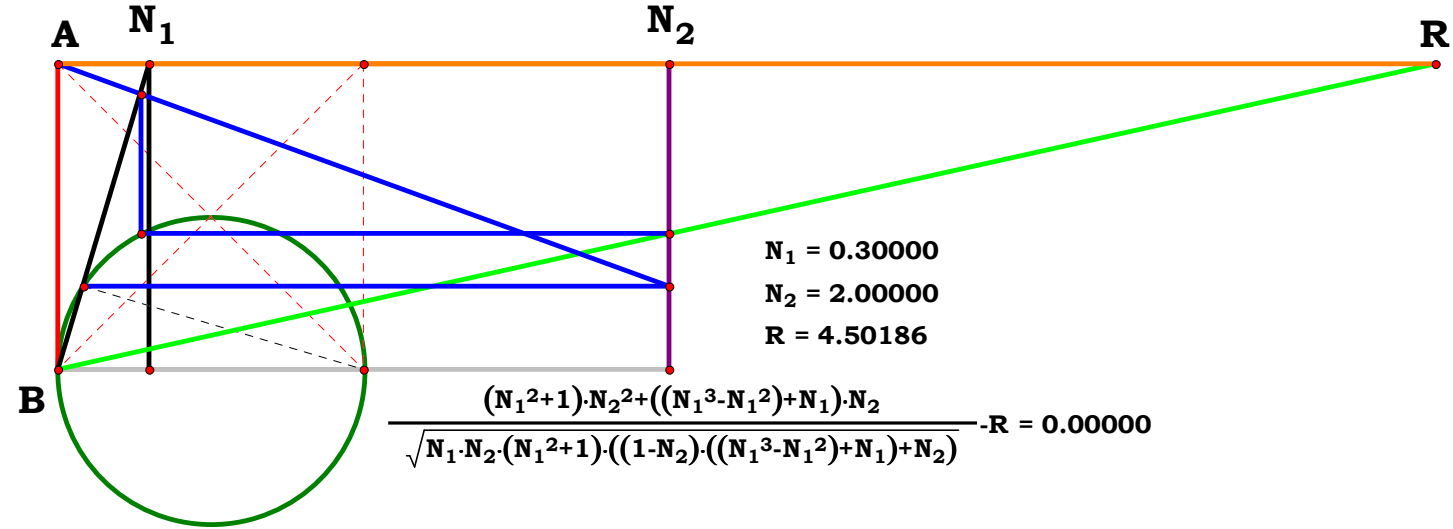
$$R - \frac{(N_1^2 + 1) \cdot N_2^2 + (N_1^3 - N_1^2 + N_1) \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1) \cdot ((1 - N_2) \cdot (N_1^3 - N_1^2 + N_1) + N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}{B \cdot \sqrt{N_u^3 \cdot (A^2 + N_u^2) \cdot [A^3 + (A^2 - A \cdot N_u + N_u^2) \cdot (B - N_u)]}} = 0$$

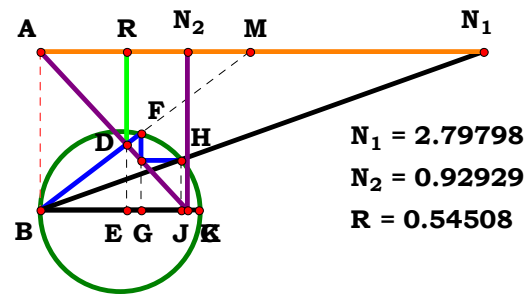
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Z \cdot p^3 + Y^3 \cdot q + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q)}{q \cdot \sqrt{Y \cdot Z \cdot (Y^2 + p^2) \cdot (Z \cdot p^3 - Y^3 \cdot Z + Y^3 \cdot q - Y \cdot Z \cdot p^2 + Y^2 \cdot Z \cdot p + Y \cdot p^2 \cdot q - Y^2 \cdot p \cdot q)}} = 0$$



$N_1 = 0.30000$
 $N_2 = 2.00000$
 $R = 4.50186$

$$\frac{(N_1^2 + 1) \cdot N_2^2 + ((N_1^3 - N_1^2) + N_1) \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot (N_1^2 + 1) \cdot ((1 - N_2) \cdot ((N_1^3 - N_1^2) + N_1) + N_2)}} - R = 0.00000$$



$N_1 = 2.79798$
 $N_2 = 0.92929$
 $R = 0.54508$

Unit. $AB := 1$ Given. $N_1 := 2.79798$ $N_2 := .92929$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

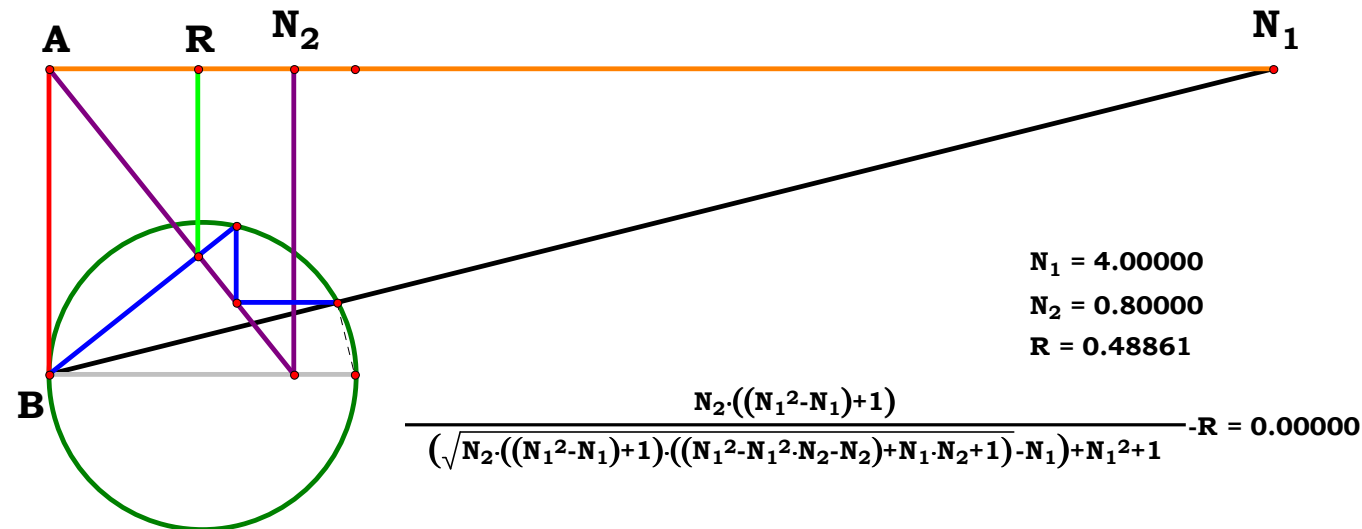
$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BH := \frac{N_1 \cdot AB}{BN_1}$$

$$HJ := \frac{AB \cdot BH}{BN_1} \quad JK := \frac{N_2 \cdot HJ}{AB}$$

$$BG := N_2 - JK \quad FG := \sqrt{BG \cdot (AB - BG)}$$

$$AM := \frac{BG \cdot AB}{FG} \quad R := \frac{AM \cdot N_2}{AM + N_2}$$

$R = 0.545076$



$N_1 = 4.00000$
 $N_2 = 0.80000$
 $R = 0.48861$

$$\frac{N_2 \cdot ((N_1^2 - N_1) + 1)}{(\sqrt{N_2 \cdot ((N_1^2 - N_1) + 1) \cdot ((N_1^2 - N_1^2 \cdot N_2 - N_2) + N_1 \cdot N_2 + 1)} - N_1) + N_1^2 + 1} - R = 0.00000$$

Definitions.

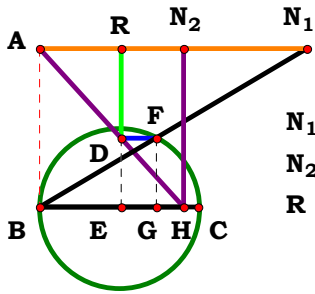
$$R - \frac{N_2 \cdot (N_1^2 - N_1 + 1)}{\sqrt{N_2 \cdot (N_1^2 - N_1 + 1) \cdot (N_1^2 - N_1^2 \cdot N_2 - N_2 + N_1 \cdot N_2 + 1)} - N_1 + N_1^2 + 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot [(B - N_u) \cdot A^2 + N_u^2 \cdot (A + B - N_u)]} + B \cdot (A^2 - A \cdot N_u + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y^2 - Y \cdot p + p^2)}{Y^2 \cdot q + p^2 \cdot q + \sqrt{Z \cdot (Y^2 - Y \cdot p + p^2) \cdot (Y^2 \cdot q - Z \cdot p^2 - Y^2 \cdot Z + p^2 \cdot q + Y \cdot Z \cdot p)} - Y \cdot p \cdot q} = 0$$



$$\begin{aligned} N_1 &= 1.68687 \\ N_2 &= 0.90909 \\ R &= 0.51031 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.68687 \quad N_2 := .90909$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BF := \frac{N_1 \cdot AB}{BN_1}$$

$$FG := \frac{AB \cdot BF}{BN_1} \quad EH := \frac{N_2 \cdot FG}{AB}$$

$$R := N_2 - EH \quad R = 0.510311$$

Definitions.

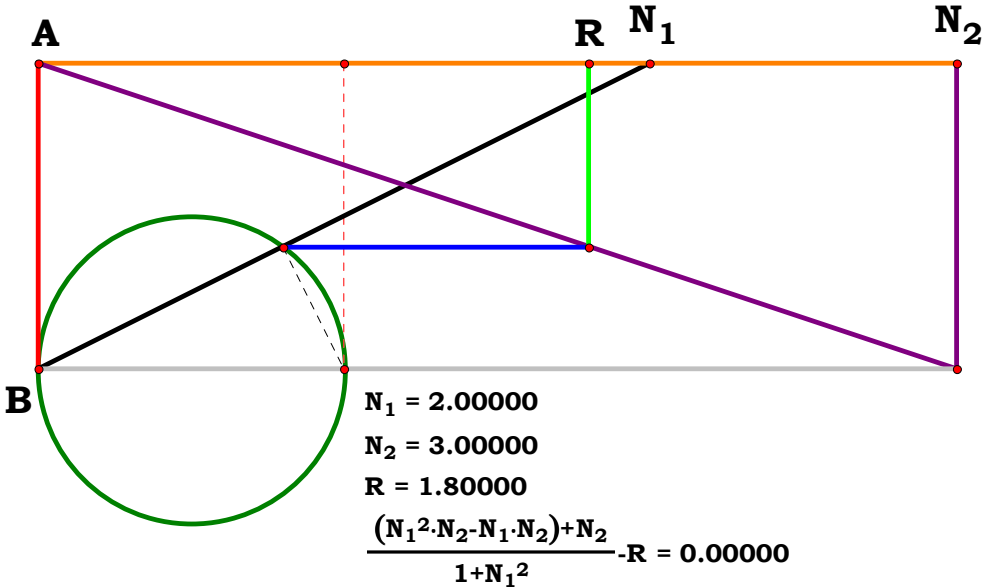
$$R - \frac{N_1^2 \cdot N_2 - N_1 \cdot N_2 + N_2}{1 + N_1^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{B \cdot (A^2 + N_u^2)} = 0$$

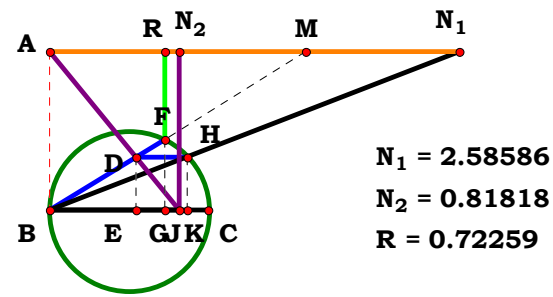
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y^2 - Y \cdot p + p^2)}{q \cdot (Y^2 + p^2)} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ R &= 1.80000 \\ \frac{(N_1^2 \cdot N_2 - N_1 \cdot N_2) + N_2}{1 + N_1^2} - R &= 0.00000 \end{aligned}$$

30BT3R2



Unit. AB := 1 **Given.** $N_1 := 2.58586$ $N_2 := .81818$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

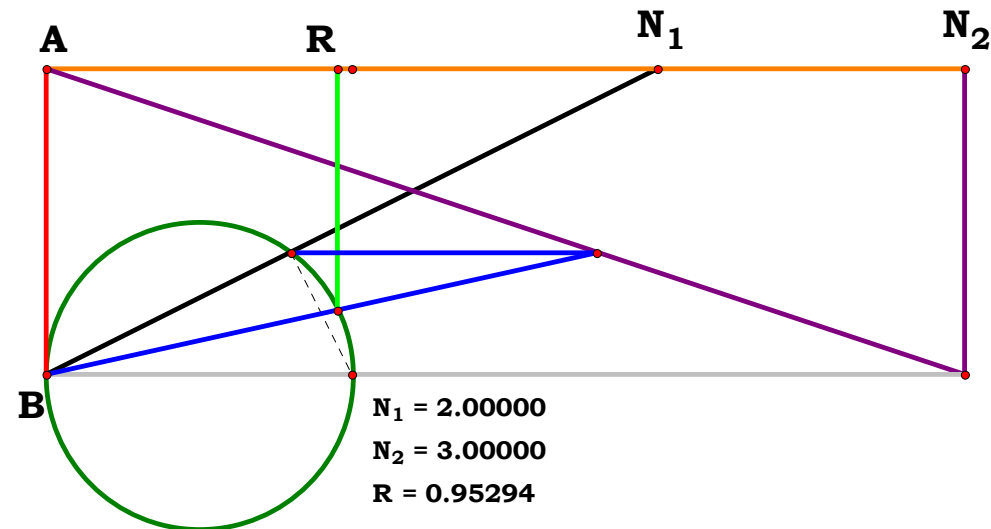
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BH} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{HK} := \frac{\mathbf{AB} \cdot \mathbf{BH}}{\mathbf{BN}_1} \quad \mathbf{EJ} := \frac{\mathbf{N}_2 \cdot \mathbf{HK}}{\mathbf{AB}}$$

$$\mathbf{BE} := \mathbf{N}_2 - \mathbf{EJ} \quad \mathbf{AM} := \frac{\mathbf{BE} \cdot \mathbf{AB}}{\mathbf{HK}}$$

$$\mathbf{BM} := \sqrt{\mathbf{AB}^2 + \mathbf{AM}^2} \quad \mathbf{BF} := \frac{\mathbf{AM} \cdot \mathbf{AB}}{\mathbf{BM}}$$

$$R := \frac{AM \cdot BF}{BM} \quad R = 0.722588$$



$$N_1 = 2.00000$$

N₂ = 3.00000

R = 0.95294

$$\frac{N_2^2 + (N_1 \cdot N_2^2 \cdot (N_1 - 1) \cdot ((N_1^2 - N_1) + 2))}{N_1^2 + N_2^2 + (N_1 \cdot N_2^2 \cdot (N_1 - 1) \cdot ((N_1^2 - N_1) + 2))} \cdot R = 0.00000$$

Definitions.

$$R - \frac{N_1 \cdot N_2^2 \cdot (N_1 - 1) \cdot (N_1^2 - N_1 + 2) + N_2^2}{N_1 \cdot N_2^2 \cdot (N_1 - 1) \cdot (N_1^2 - N_1 + 2) + N_1^2 + N_2^2} = 0$$

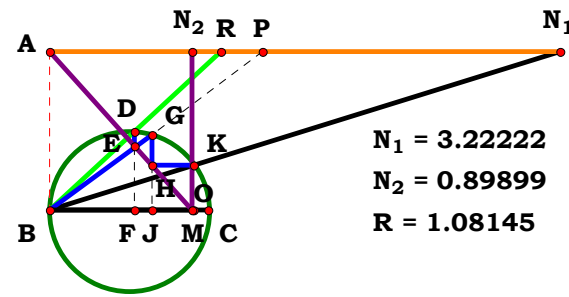
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}{\mathbf{A}^2 \cdot \mathbf{B}^2 + \mathbf{N}_{\mathbf{u}}^4 + \mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{N}_{\mathbf{u}}^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z}^2 \cdot (\mathbf{Y}^2 - \mathbf{Y} \cdot \mathbf{p} + \mathbf{p}^2)^2}{\mathbf{Y}^4 \cdot \mathbf{Z}^2 - 2 \cdot \mathbf{Y}^3 \cdot \mathbf{Z}^2 \cdot \mathbf{p} + 3 \cdot \mathbf{Y}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{p}^2 + \mathbf{Y}^2 \cdot \mathbf{p}^2 \cdot \mathbf{q}^2 - 2 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{p}^3 + \mathbf{Z}^2 \cdot \mathbf{p}^4} = 0$$

30BT2R3



Unit. AB := 1 **Given.** $N_1 := 3.22222$ $N_2 := .89899$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BK} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{KM} := \frac{\mathbf{AB} \cdot \mathbf{BK}}{\mathbf{BN}_1} \quad \mathbf{JO} := \frac{\mathbf{N}_2 \cdot \mathbf{KM}}{\mathbf{AB}}$$

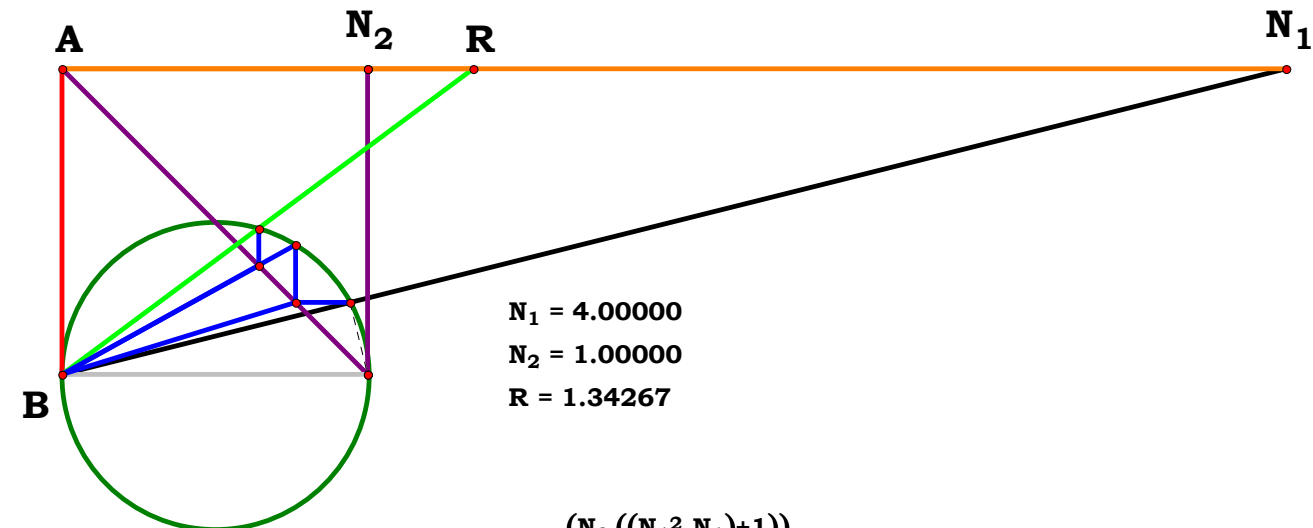
$$\mathbf{BJ} := \mathbf{N}_2 - \mathbf{JO} \quad \mathbf{GJ} := \sqrt{\mathbf{BJ} \cdot (\mathbf{AB} - \mathbf{BJ})}$$

$$\mathbf{AP} := \frac{\mathbf{BJ} \cdot \mathbf{AB}}{\mathbf{GJ}} \quad \mathbf{BF} := \frac{\mathbf{AP} \cdot \mathbf{N}_2}{\mathbf{AP} + \mathbf{N}_2}$$

$$\mathbf{DF} := \sqrt{\mathbf{BF} \cdot (\mathbf{AB} - \mathbf{BF})} \quad \mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{DF}}$$

R = 1.081448

Definitions.



N₁ = 4.00000
N₂ = 1.00000
R = 1.34267

$$\frac{(N_2 \cdot ((N_1^2 - N_1) + 1))}{\sqrt{(N_2 \cdot ((N_1^2 - N_1) + 1)) \cdot ((\sqrt{(N_2 \cdot ((N_1^2 - N_1) + 1)) \cdot ((N_1^2 - N_1^2 \cdot N_2 - N_2) + N_1 \cdot N_2 + 1)) - N_2 - N_1^2 \cdot N_2 - N_1) + N_1^2 + N_1 \cdot N_2 + 1)}} - R = 0.00000$$

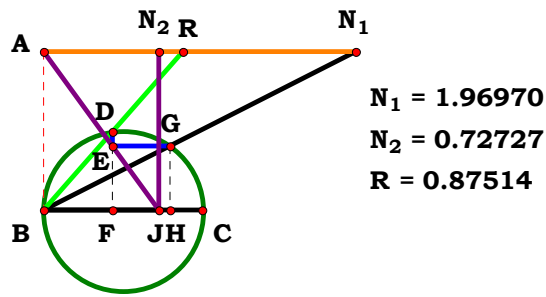
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 - \mathbf{N}_1 + 1)}{\sqrt{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 - \mathbf{N}_1 + 1)} \cdot \left[\sqrt{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 - \mathbf{N}_1 + 1) \cdot (\mathbf{N}_1^2 - \mathbf{N}_1^2 \cdot \mathbf{N}_2 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_2 + 1)} - \mathbf{N}_2 - \mathbf{N}_1^2 \cdot \mathbf{N}_2 - \mathbf{N}_1 + \mathbf{N}_1^2 + \mathbf{N}_1 \cdot \mathbf{N}_2 + 1 \right]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot \left| \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot (\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{N}_{\mathbf{u}}^3 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2) + (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right|} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot (\mathbf{y}^2 - \mathbf{y} \cdot \mathbf{p} + \mathbf{p}^2)}{\sqrt{\mathbf{z} \cdot (\mathbf{y}^2 - \mathbf{y} \cdot \mathbf{p} + \mathbf{p}^2)} \cdot \left[\mathbf{y}^2 \cdot \mathbf{q} - \mathbf{z} \cdot \mathbf{p}^2 - \mathbf{y}^2 \cdot \mathbf{z} + \mathbf{p}^2 \cdot \mathbf{q} + \sqrt{\mathbf{z} \cdot (\mathbf{y}^2 - \mathbf{y} \cdot \mathbf{p} + \mathbf{p}^2)} \cdot (\mathbf{y}^2 \cdot \mathbf{q} - \mathbf{z} \cdot \mathbf{p}^2 - \mathbf{y}^2 \cdot \mathbf{z} + \mathbf{p}^2 \cdot \mathbf{q} + \mathbf{y} \cdot \mathbf{z} \cdot \mathbf{p}) \right] + \mathbf{y} \cdot \mathbf{z} \cdot \mathbf{p} - \mathbf{y} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$



$N_1 = 1.96970$
 $N_2 = 0.72727$
 $R = 0.87514$

Unit. $AB := 1$ Given. $N_1 := 1.96970$ $N_2 := .72727$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1 \cdot AB}{BN_1}$$

$$GH := \frac{AB \cdot BG}{BN_1}$$

$$FJ := \frac{N_2 \cdot GH}{AB}$$

$$BF := N_2 - FJ$$

$$DF := \sqrt{BF \cdot (AB - BF)}$$

$$R := \frac{BF \cdot AB}{DF} \quad R = 0.875141$$

Definitions.

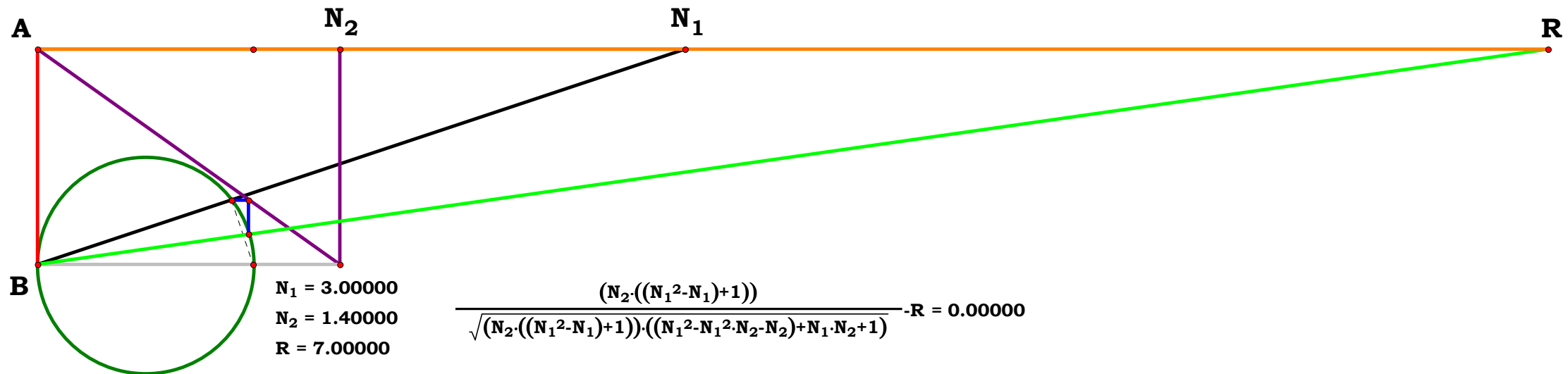
$$R - \frac{N_2 \cdot (N_1^2 - N_1 + 1)}{\sqrt{N_2 \cdot (N_1^2 - N_1 + 1) \cdot (N_1^2 - N_1^2 \cdot N_2 - N_2 + N_1 \cdot N_2 + 1)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot [(A + B) \cdot N_u^2 - N_u^3 + (A^2 \cdot B - A^2 \cdot N_u)]}} = 0$$

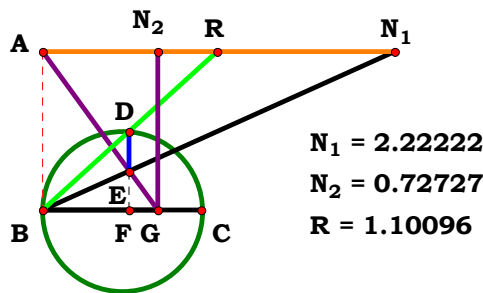
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y^2 - Y \cdot p + p^2)}{\sqrt{Z \cdot (Y^2 - Y \cdot p + p^2) \cdot (Y^2 \cdot q - Z \cdot p^2 - Y^2 \cdot Z + p^2 \cdot q + Y \cdot Z \cdot p)}} = 0$$



$N_1 = 3.00000$
 $N_2 = 1.40000$
 $R = 7.00000$

$$\frac{(N_2 \cdot ((N_1^2 - N_1) + 1))}{\sqrt{(N_2 \cdot ((N_1^2 - N_1) + 1)) \cdot ((N_1^2 - N_1^2 \cdot N_2 - N_2) + N_1 \cdot N_2 + 1)}} - R = 0.00000$$



Unit. $AB := 1$ **Given.** $N_1 := 2.22222$ $N_2 := .72727$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{DF} := \sqrt{\mathbf{BF} \cdot (\mathbf{AB} - \mathbf{BF})}$$

$$\mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{DF}} \quad \mathbf{R} = 1.10096$$

Definitions.

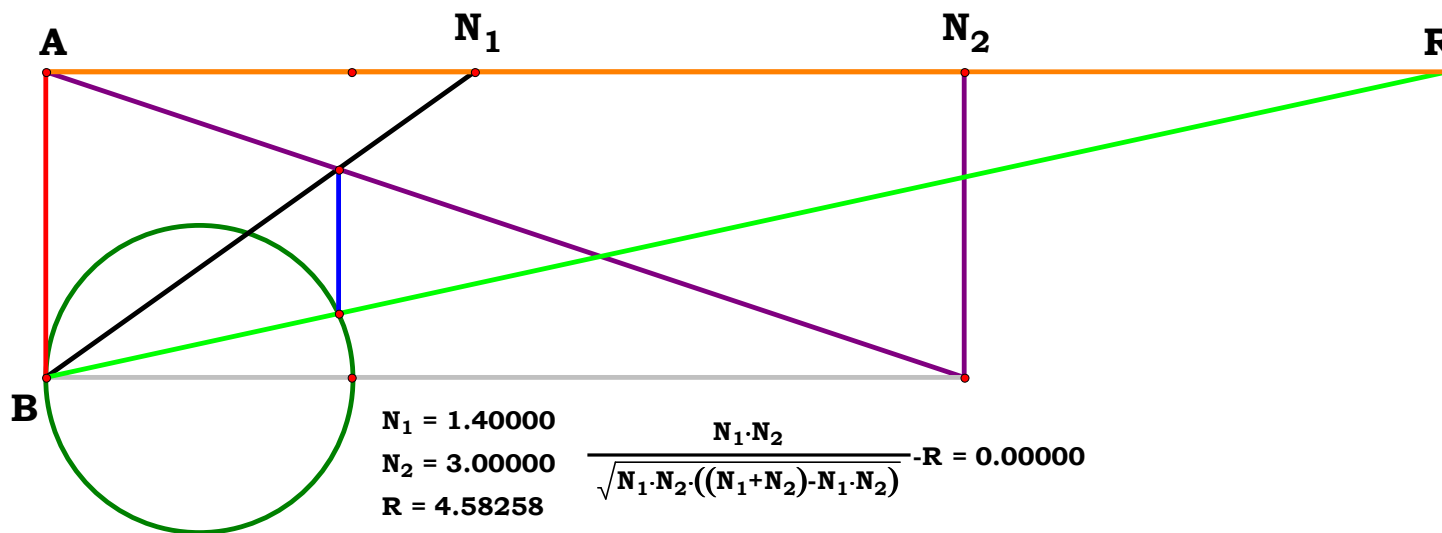
$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\sqrt{\mathbf{N}_1 \cdot \mathbf{N}_2 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_2)}} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u}{\sqrt{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_u)}} = \mathbf{0}$$

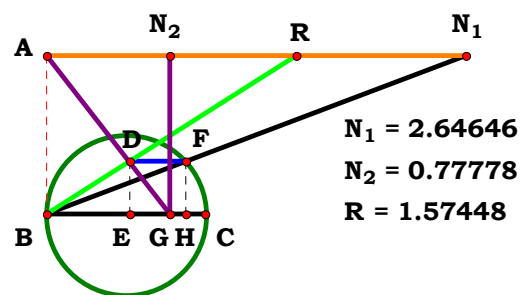
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z}}{\sqrt{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{p})}} = \mathbf{0}$$



$$\begin{aligned} N_1 &= 1.40000 \\ N_2 &= 3.00000 \\ R &= 4.58258 \end{aligned} \quad \frac{N_1 \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot ((N_1 + N_2) - N_1 \cdot N_2)}} - R = 0.00000$$

30BT3R6


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{FH} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{\mathbf{BN}_1} \quad \mathbf{EH} := \frac{\mathbf{N}_2 \cdot \mathbf{FH}}{\mathbf{AB}}$$

$$\mathbf{BE} := \mathbf{N}_2 - \mathbf{EH} \quad \mathbf{R} := \frac{\mathbf{BE} \cdot \mathbf{AB}}{\mathbf{FH}}$$

R = 1.574478

Definitions.

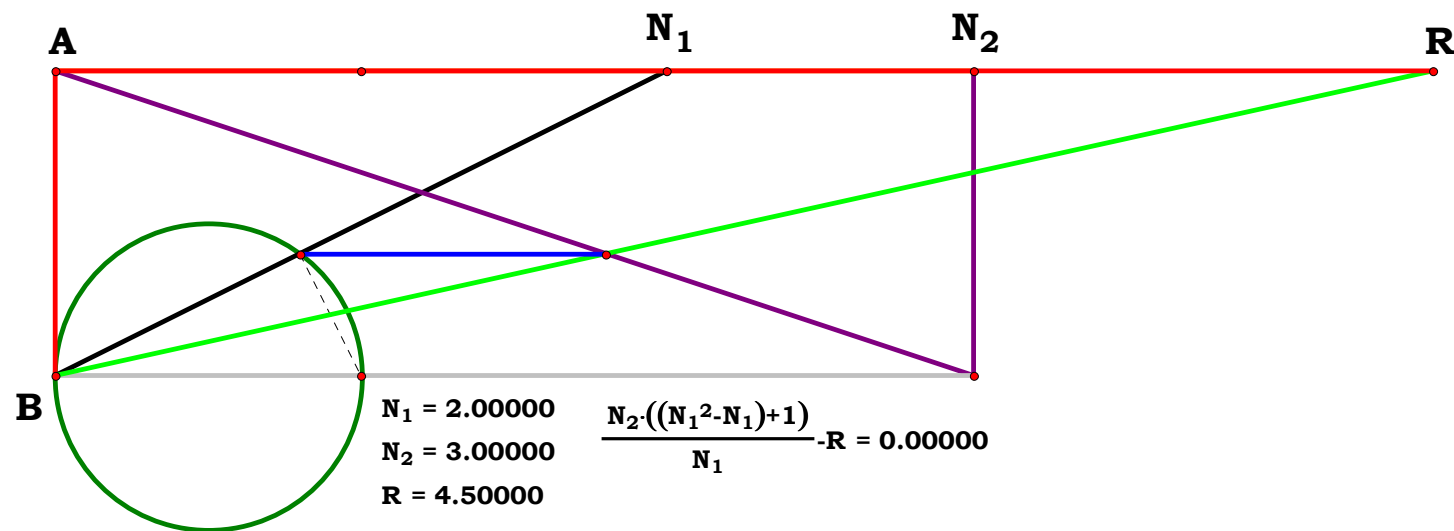
$$R - \frac{N_2 \cdot (N_1^2 - N_1 + 1)}{N_1} = 0$$

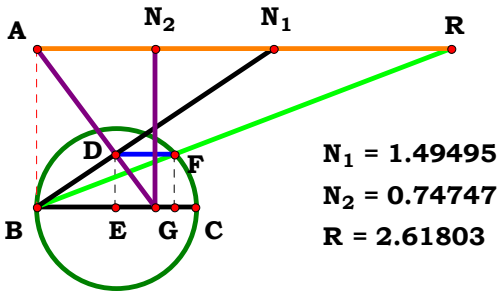
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A^2 - A \cdot N_u + N_u^2}{A \cdot B} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot (\mathbf{Y}^2 - \mathbf{Y} \cdot \mathbf{p} + \mathbf{p}^2)}{\mathbf{Y} \cdot \mathbf{p} \cdot \mathbf{q}} = \mathbf{0}$$





$$\begin{aligned} N_1 &= 1.49495 \\ N_2 &= 0.74747 \\ R &= 2.61803 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.49495 \quad N_2 := .74747$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BE := \frac{N_2 \cdot N_1}{N_1 + N_2} \quad DE := \frac{BE}{N_1}$$

$$EG := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - DE^2} \quad BG := AB - EG$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 2.61805$$

Definitions.

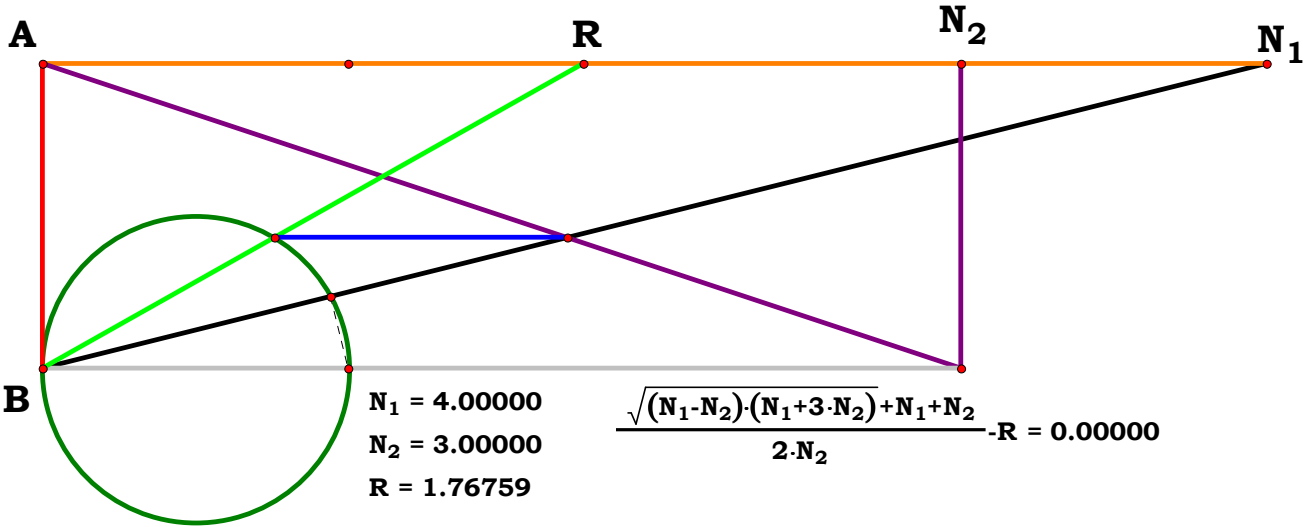
$$R - \frac{\sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)} + (N_1 + N_2)}{2 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

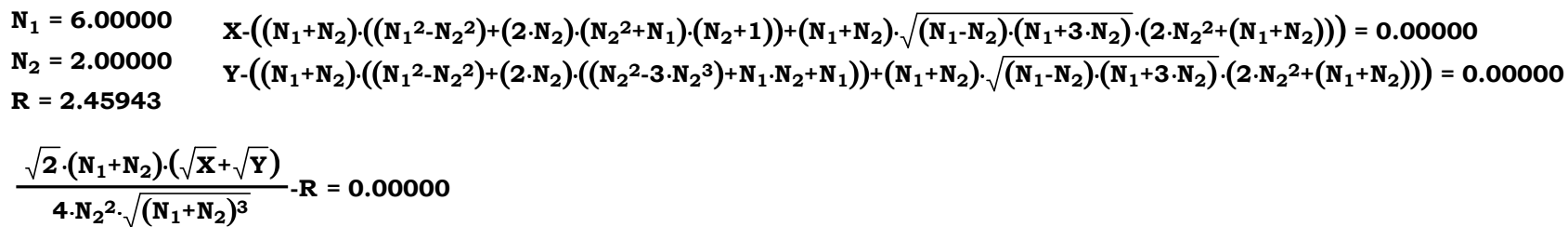
$$R - \frac{A + B + \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2}}{2 \cdot A} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

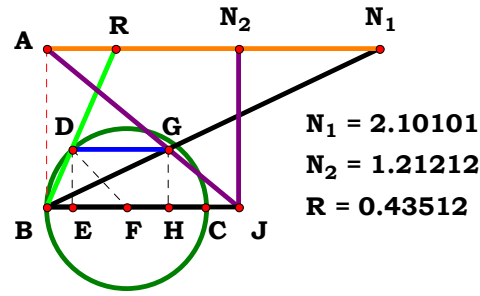
$$R - \frac{Y \cdot q + Z \cdot p + \sqrt{Y^2 \cdot q^2 + 2 \cdot Y \cdot Z \cdot p \cdot q - 3 \cdot Z^2 \cdot p^2}}{2 \cdot Z \cdot p} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 3.00000 \\ R &= 1.76759 \end{aligned} \quad \frac{\sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)} + N_1 + N_2}{2 \cdot N_2} - R = 0.00000$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$


$$\mathbf{R} - \frac{\mathbf{q} \cdot \left[\sqrt{\frac{(\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p}) \cdot (2 \cdot \mathbf{p} \cdot \mathbf{Z}^2 \cdot \mathbf{q} + \mathbf{p} \cdot \mathbf{Z} \cdot \mathbf{q}^2 + \mathbf{Y} \cdot \mathbf{q}^3) \cdot \sqrt{\mathbf{Y}^2 \cdot \mathbf{q}^2 + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 3 \cdot \mathbf{Z}^2 \cdot \mathbf{p}^2} \dots}{+ (\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p}) \cdot (\mathbf{Y}^2 \cdot \mathbf{q}^4 + 2 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{p} \cdot \mathbf{q}^2 + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q}^3 + 2 \cdot \mathbf{Z}^4 \cdot \mathbf{p}^2 + 2 \cdot \mathbf{Z}^3 \cdot \mathbf{p}^2 \cdot \mathbf{q} - \mathbf{Z}^2 \cdot \mathbf{p}^2 \cdot \mathbf{q}^2)}}} \dots \right] \cdot \sqrt{2 \cdot \mathbf{q}^3}}{\sqrt{4 \cdot \mathbf{Z}^2 \cdot \mathbf{p} \cdot \mathbf{q}^5} \cdot \sqrt{(\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p})}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.10101$ $N_2 := 1.21212$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

$N_1 = 2.10101$
 $N_2 = 1.21212$
 $R = 0.43512$

Descriptions.

$$BH := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad GH := \frac{AB \cdot BH}{N_1}$$

$$EF := \sqrt{\left(\frac{AB}{2}\right)^2 - GH^2} \quad BE := \frac{AB}{2} - EF$$

$$R := \frac{BE \cdot AB}{GH} \quad R = 0.43512$$

Definitions.

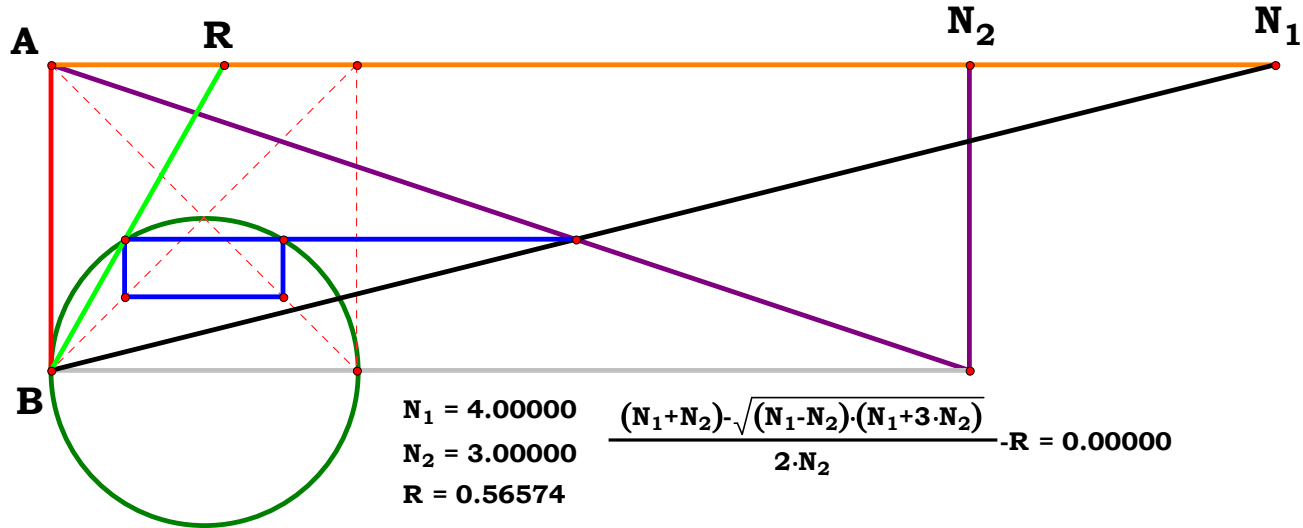
$$R - \frac{N_1 + N_2 - \sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)}}{2 \cdot N_2} = 0$$

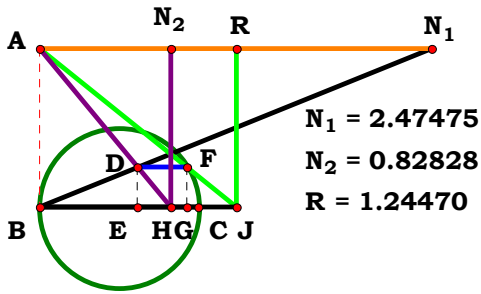
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + B - \sqrt{(B - A) \cdot (3 \cdot A + B)}}{2 \cdot A} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot q + Z \cdot p - \sqrt{Y^2 \cdot q^2 + 2 \cdot Y \cdot Z \cdot p \cdot q - 3 \cdot Z^2 \cdot p^2}}{2 \cdot Z \cdot p} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.13803$ $N_2 := .74817$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

$N_1 = 2.47475$
 $N_2 = 0.82828$
 $R = 1.24470$

Descriptions.

$$BE := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad DE := \frac{AB \cdot BE}{N_1}$$

$$BG := \frac{AB}{2} + \sqrt{\left(\frac{AB}{2}\right)^2 - DE^2} \quad R := \frac{BG \cdot AB}{AB - DE}$$

$R = 1.252138$

Definitions.

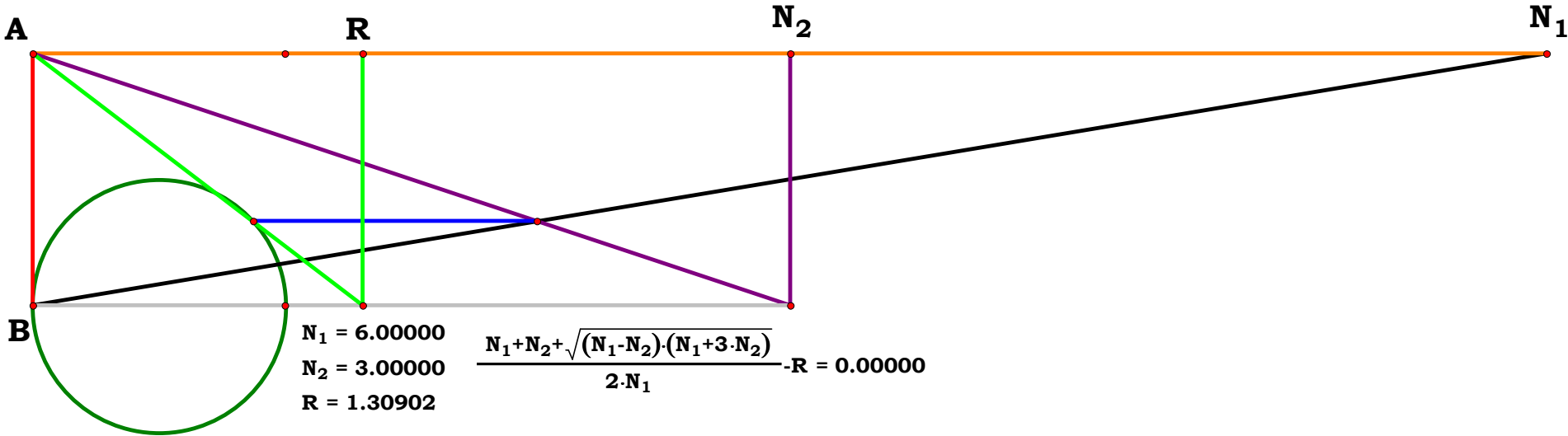
$$R - \frac{\sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)} + N_1 + N_2}{2 \cdot N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

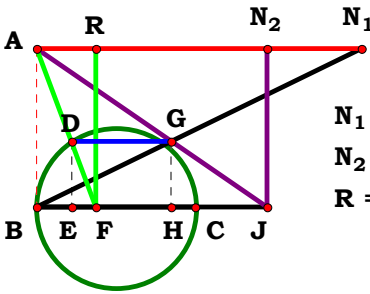
$$R - \frac{A + B + \sqrt{(B - A) \cdot (3 \cdot A + B)}}{2 \cdot B} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(Y \cdot q - Z \cdot p) \cdot (Y \cdot q + 3 \cdot Z \cdot p)} + Y \cdot q + Z \cdot p}{2 \cdot Y \cdot q} = 0$$



$N_1 = 6.00000$
 $N_2 = 3.00000$
 $R = 1.30902$
 $\frac{N_1 + N_2 + \sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)}}{2 \cdot N_1} - R = 0.00000$



$$\begin{aligned} N_1 &:= 2.05051 \\ N_2 &:= 1.45455 \\ R &:= 0.37793 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.05051 \quad N_2 := 1.45455$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BH := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad GH := \frac{AB \cdot BH}{N_1}$$

$$BE := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - GH^2} \quad R := \frac{BE \cdot AB}{AB - GH}$$

$$R = 0.377935$$

Definitions.

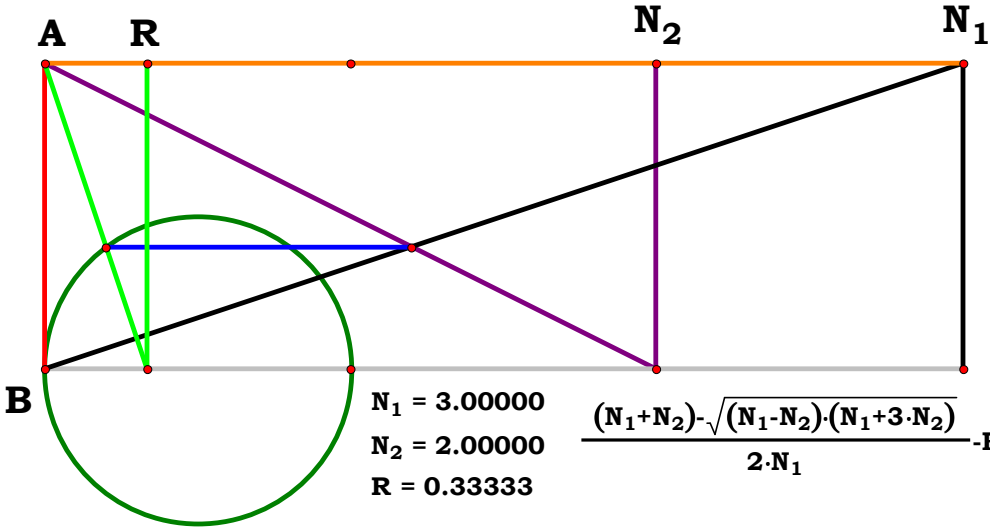
$$R - \frac{N_1 + N_2 - \sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)}}{2 \cdot N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + B - \sqrt{[(B - A) \cdot (3 \cdot A + B)]}}{2 \cdot B} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot q + Z \cdot p - \sqrt{Y^2 \cdot q^2 + 2 \cdot Y \cdot Z \cdot p \cdot q - 3 \cdot Z^2 \cdot p^2}}{2 \cdot Y \cdot q} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ R &= 0.33333 \end{aligned} \quad \frac{(N_1 + N_2) - \sqrt{(N_1 - N_2) \cdot (N_1 + 3 \cdot N_2)}}{2 \cdot N_1} - R = 0.00000$$



30BT3R12

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{BD}}{\mathbf{BN}_1} \quad \mathbf{EF} := \frac{\mathbf{AB} \cdot (\mathbf{N}_2 - \mathbf{BF})}{\mathbf{N}_2}$$

$$R := \frac{BF \cdot AB}{EF} \quad R = 5.279922$$

Definitions.

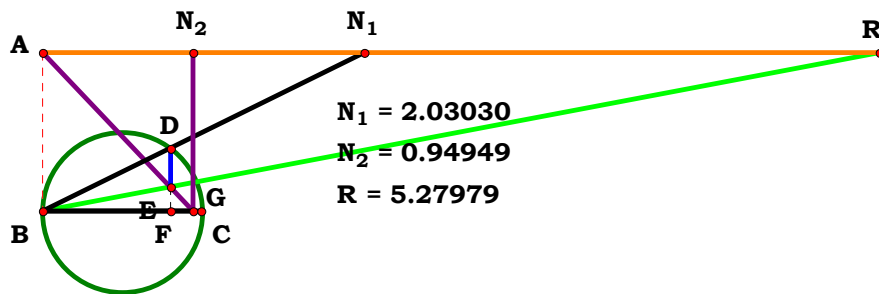
$$R - \frac{N_1^2 \cdot N_2}{N_1^2 \cdot N_2 - N_1^2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2}{A^2 + N_u^2 - B \cdot N_u} = 0$$

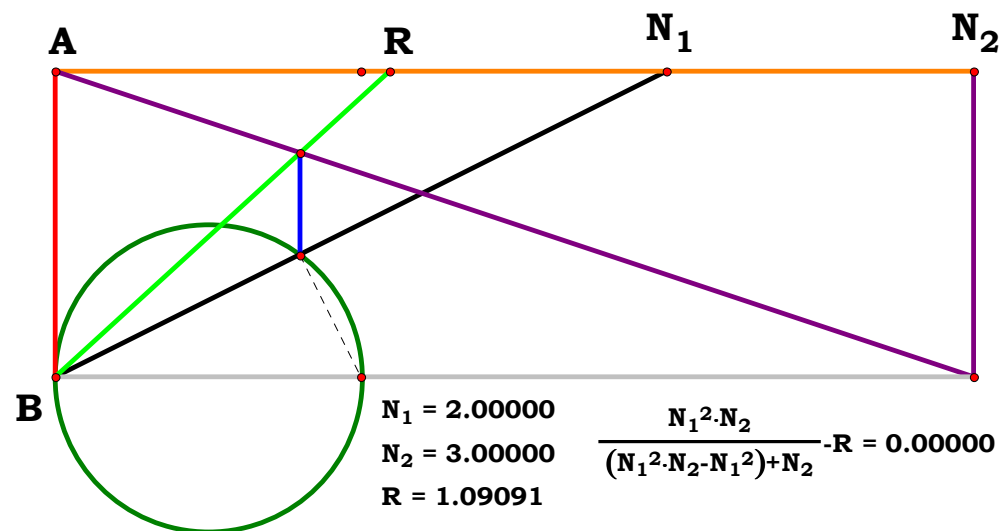
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y}^2 \cdot \mathbf{Z}}{\mathbf{Y}^2 \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{p}^2 - \mathbf{Y}^2 \cdot \mathbf{q}} = 0$$

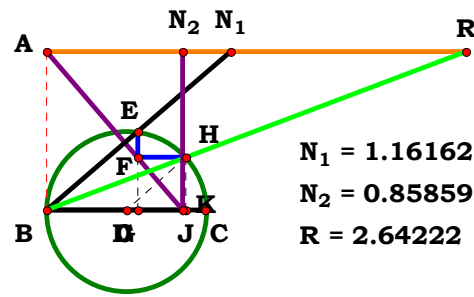


Unit. AB := 1 **Given.** N₁ := 2.03030 N₂ := .94949

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$



$$\frac{N_1^2 \cdot N_2}{(N_1^2 \cdot N_2 - N_1^2) + N_2} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.16162$ $N_2 := .85859$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

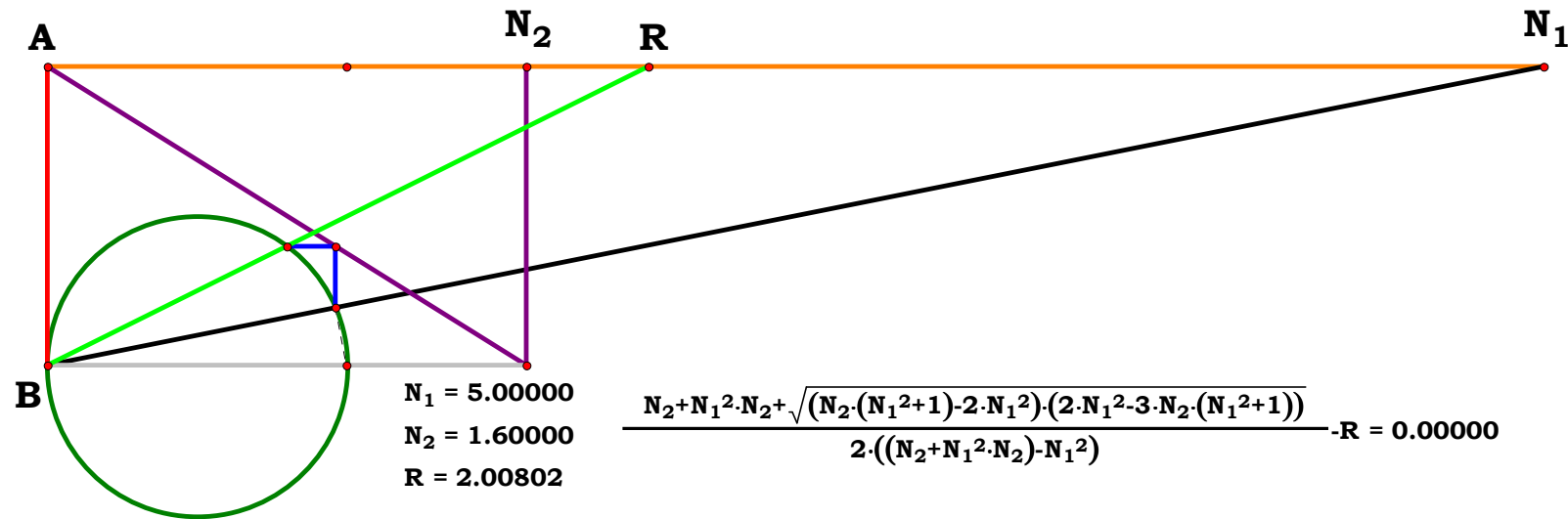
$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{N_1 \cdot AB}{BN_1}$$

$$BG := \frac{N_1 \cdot BE}{BN_1} \quad GK := N_2 - BG$$

$$FG := \frac{AB \cdot GK}{N_2} \quad DJ := \sqrt{\left(\frac{AB}{2}\right)^2 - FG^2}$$

$$BJ := \frac{AB}{2} + DJ \quad R := \frac{BJ \cdot AB}{FG}$$

$$R = 2.642205$$



$$N_1 = 5.00000 \\ N_2 = 1.60000 \\ R = 2.00802$$

$$\frac{N_2 + N_1^2 \cdot N_2 + \sqrt{(N_2 \cdot (N_1^2 + 1) - 2 \cdot N_1^2) \cdot (2 \cdot N_1^2 - 3 \cdot N_2 \cdot (N_1^2 + 1))}}{2 \cdot ((N_2 + N_1^2 \cdot N_2) - N_1^2)} - R = 0.00000$$

Definitions.

$$R - \frac{N_2 + N_1^2 \cdot N_2 + \sqrt{[N_2 \cdot (N_1^2 + 1) - 2 \cdot N_1^2] \cdot [2 \cdot N_1^2 - 3 \cdot N_2 \cdot (N_1^2 + 1)]}}{2 \cdot (N_2 + N_1^2 \cdot N_2 - N_1^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{\sqrt{(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u) \cdot (2 \cdot B \cdot N_u - N_u^2 - A^2)} + A^2 + N_u^2}{2 \cdot (A^2 + N_u^2 - B \cdot N_u)} = 0$$

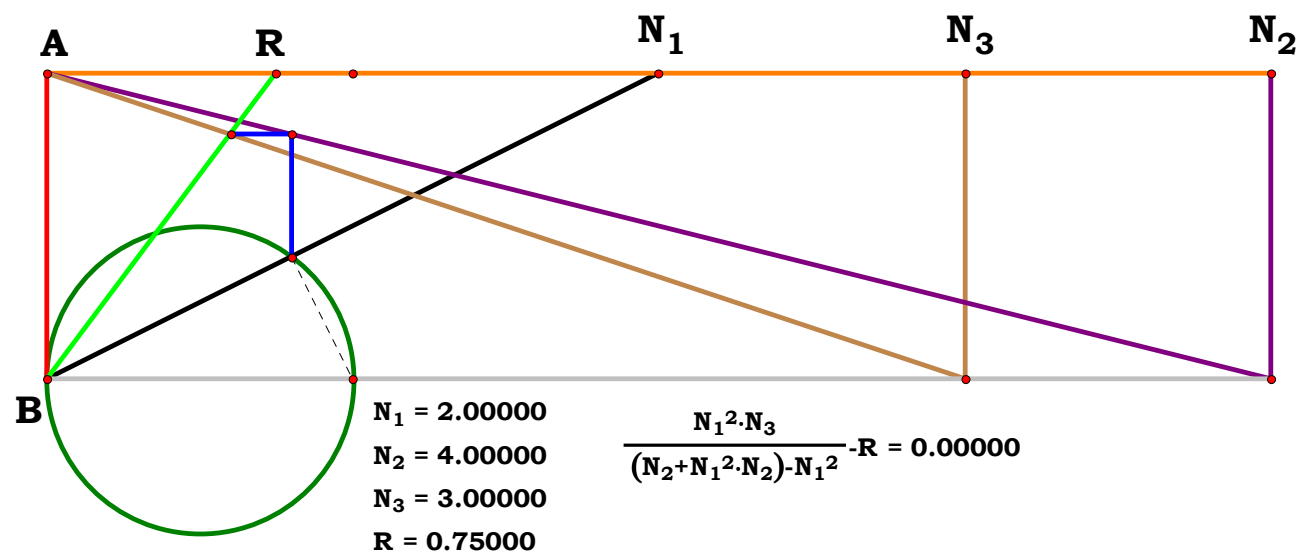
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

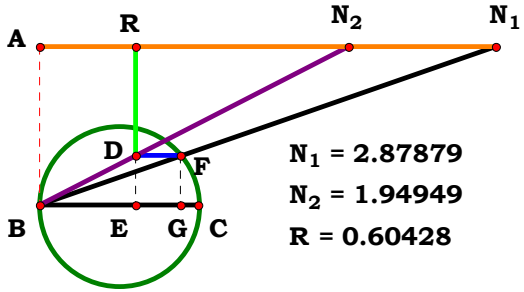
$$R - \frac{Y^2 \cdot Z + Z \cdot p^2 + \sqrt{(2 \cdot Y^2 \cdot q - 3 \cdot Z \cdot p^2 - 3 \cdot Y^2 \cdot Z) \cdot (Y^2 \cdot Z + Z \cdot p^2 - 2 \cdot Y^2 \cdot q)}}{2 \cdot (Y^2 \cdot Z + Z \cdot p^2 - Y^2 \cdot q)} = 0$$

30BT3R14

$$\mathbf{R} - \frac{\mathbf{X}^2 \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{q} \cdot (\mathbf{X}^2 \cdot \mathbf{Y} + \mathbf{Y} \cdot \mathbf{o}^2 - \mathbf{X}^2 \cdot \mathbf{p})} = \mathbf{0}$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$





Unit. $AB := 1$ Given. $N_1 := 2.87879$ $N_2 := 1.94949$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BF := \frac{N_1 \cdot AB}{BN_1}$$

$$FG := \frac{AB \cdot BF}{BN_1} \quad R := N_2 \cdot FG$$

$$R = 0.604276$$

Definitions.

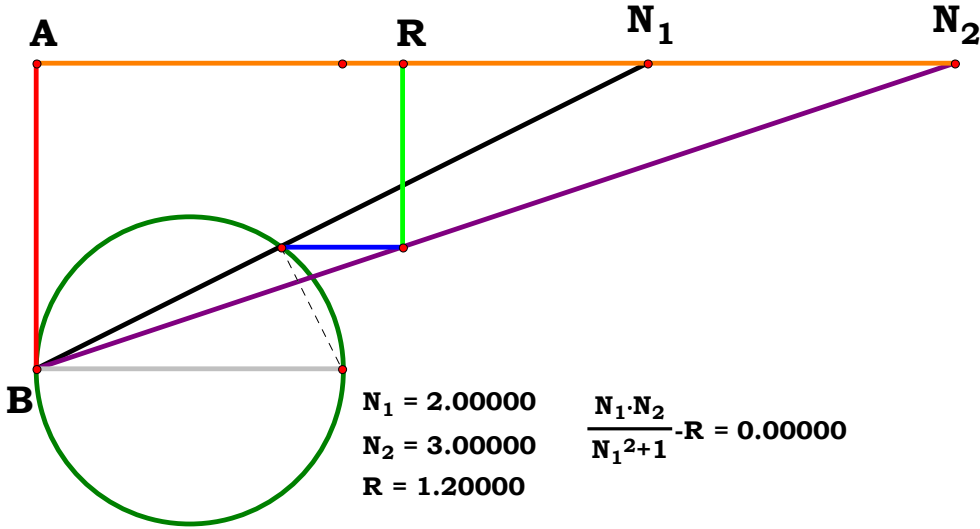
$$R - \frac{N_1 \cdot N_2}{N_1^2 + 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

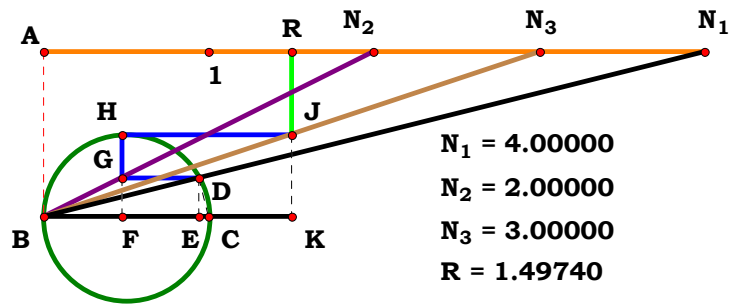
$$R - \frac{A \cdot N_u^2}{B \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot p}{q \cdot (Y^2 + p^2)} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ R &= 1.20000 \end{aligned} \quad \frac{N_1 \cdot N_2}{N_1^2 + 1} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 4$ $N_2 := 2$ $N_3 := 3$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BD}{BN_1} \quad BF := \frac{N_2 \cdot DE}{AB}$$

$$HF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{N_3 \cdot HF}{AB}$$

$$R = 1.497403$$

Definitions.

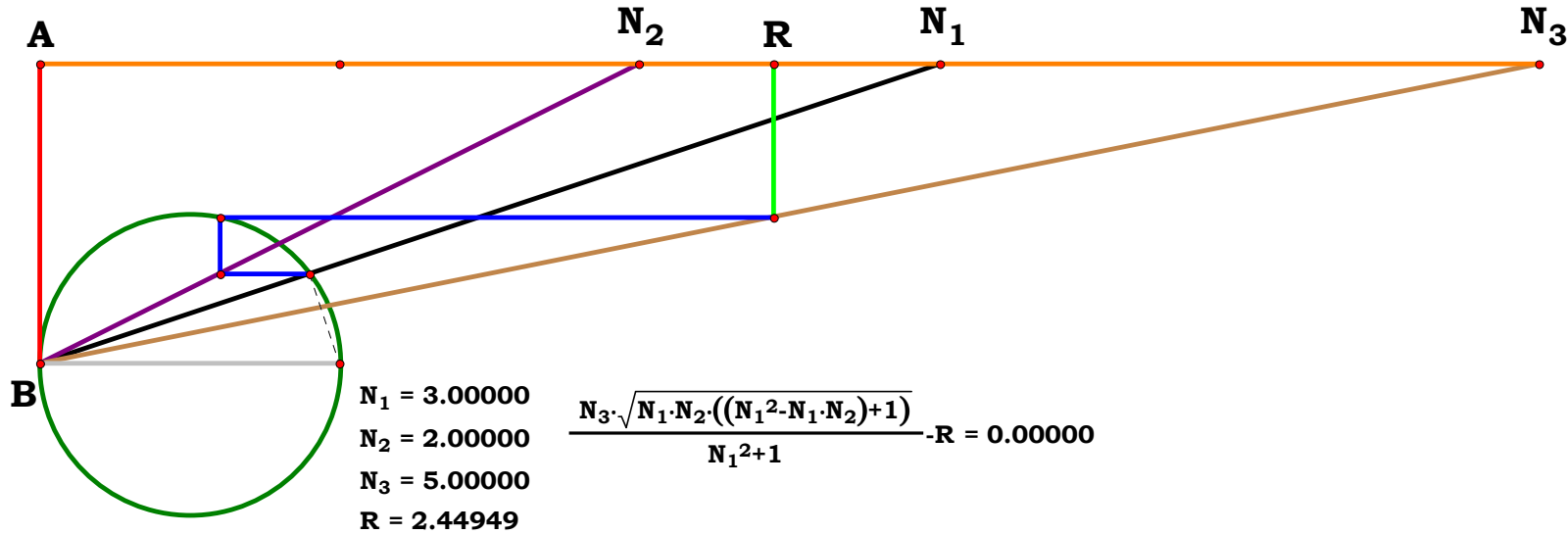
$$R - \frac{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot (N_1^2 - N_1 \cdot N_2 + 1)}}{N_1^2 + 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

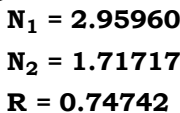
$$R - \frac{\sqrt{A \cdot N_u^2} \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}}{B \cdot C \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot \sqrt{o} \cdot \sqrt{p \cdot X^3 \cdot Y - X^2 \cdot Y^2 \cdot o + p \cdot X \cdot Y \cdot o^2}}{p \cdot q \cdot (X^2 + o^2)} = 0$$



30BT4R2


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{GH} := \frac{\mathbf{AB} \cdot \mathbf{BG}}{\mathbf{BN}_1} \quad \mathbf{BE} := \frac{\mathbf{N}_2 \cdot \mathbf{GH}}{\mathbf{AB}}$$

$$R := \frac{BE \cdot AB}{AB - GH} \quad R = 0.747413$$

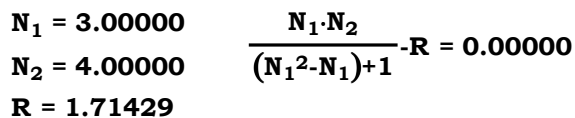
$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_2}{\mathbf{N}_1^2 - \mathbf{N}_1 + 1} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A \cdot N_u^2}{B \cdot (A^2 - A \cdot N_u + N_u^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{q} \cdot (\mathbf{Y}^2 - \mathbf{Y} \cdot \mathbf{p} + \mathbf{p}^2)} = 0$$





30BT4R3

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1 \cdot AB}{BN_1}$$

$$GH := \frac{AB \cdot BG}{BN_1} \quad BF := \frac{N_2 \cdot GH}{AB}$$

$$DF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{DF}$$

$$R = 1.630607$$

Definitions.

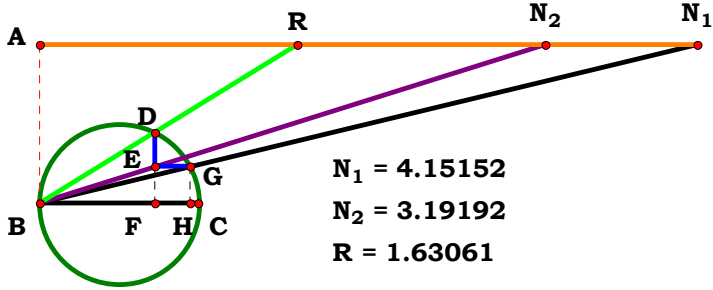
$$R - \frac{(N_1 \cdot N_2)^{\frac{1}{2}}}{(N_1^2 - N_1 \cdot N_2 + 1)^{\frac{1}{2}}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A \cdot N_u}{\sqrt{N_u^2 \cdot A \cdot (B - A) + A^3 \cdot B}} = 0$$

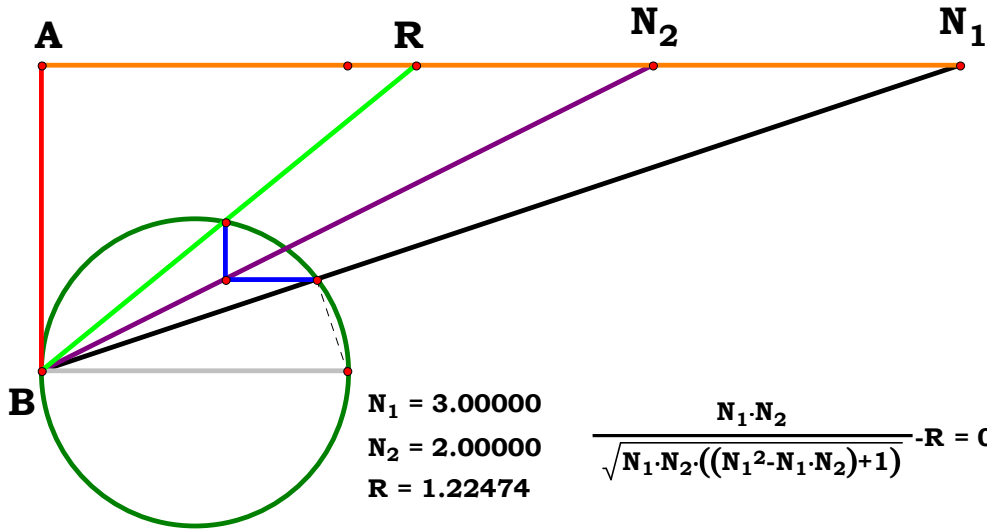
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{p \cdot \sqrt{q} \cdot \sqrt{Y \cdot Z}}{\sqrt{p \cdot q} \cdot \sqrt{q \cdot Y^2 - Z \cdot Y \cdot p + q \cdot p^2}} = 0$$



Unit. AB := 1 Given. N1 := 4.15152 N2 := 3.19192

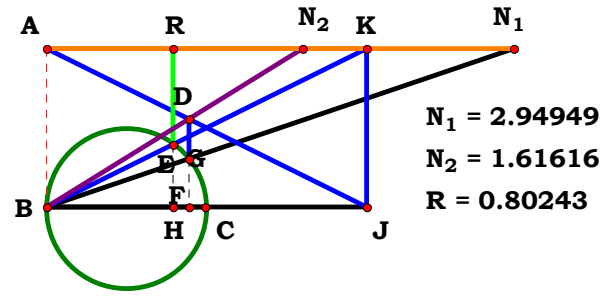
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$



$$\frac{N_1 \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + 1)}} \cdot R = 0.00000$$



30BT4R4



$N_1 = 2.94949$
 $N_2 = 1.61616$
 $R = 0.80243$

Unit. $AB := 1$ Given. $N_1 := 2.94949$ $N_2 := 1.61616$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{N_1 \cdot AB}{BN_1}$$

$$BF := \frac{N_1 \cdot BE}{BN_1} \quad DF := \frac{AB \cdot BF}{N_2}$$

$$BJ := \frac{BF \cdot AB}{AB - DF} \quad BK := \sqrt{AB^2 + BJ^2}$$

$$BG := \frac{BJ \cdot AB}{BK} \quad R := \frac{BJ \cdot BG}{BK}$$

$R = 0.802431$

Definitions.

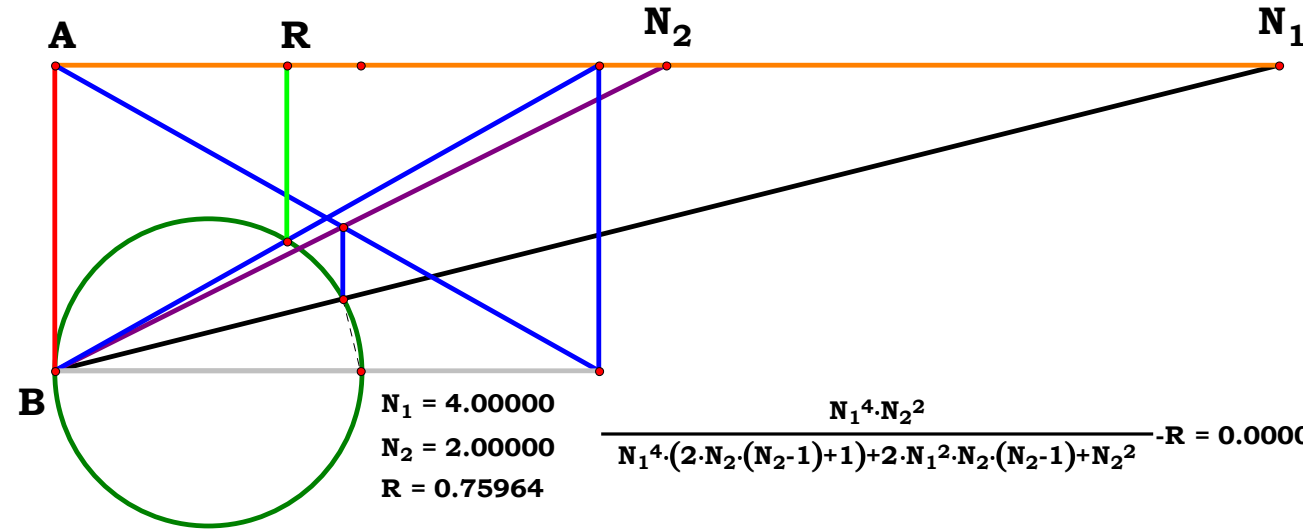
$$R - \frac{N_1^4 \cdot N_2^2}{N_1^4 \cdot (2 \cdot N_2 \cdot (N_2 - 1) + 1) + 2 \cdot N_1^2 \cdot N_2 \cdot (N_2 - 1) + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^4}{N_u^2 \cdot B^2 - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2) + A^4 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

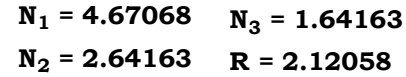
$$R - \frac{Y^4 \cdot Z^2}{Y^4 \cdot (2 \cdot Z^2 - 2 \cdot Z \cdot q + q^2) + 2 \cdot Y^2 \cdot Z \cdot p^2 \cdot (Z - q) + Z^2 \cdot p^4} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $R = 0.75964$

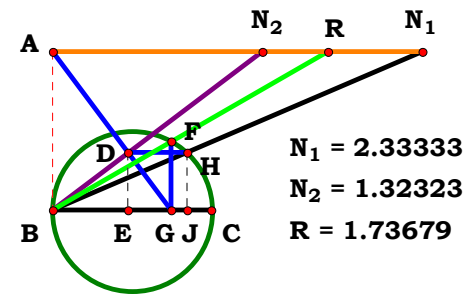
$$\frac{N_1^4 \cdot N_2^2}{N_1^4 \cdot (2 \cdot N_2 \cdot (N_2 - 1) + 1) + 2 \cdot N_1^2 \cdot N_2 \cdot (N_2 - 1) + N_2^2} - R = 0.00000$$

30BT4R5


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{GK} := \sqrt{\mathbf{BK} \cdot (\mathbf{AB} - \mathbf{BK})} \quad \mathbf{R} := \frac{\mathbf{BK} \cdot \mathbf{AB}}{\mathbf{GK}}$$
$$\frac{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + 1)}}{\sqrt{((N_1 \cdot N_2 \cdot N_3)^2 + N_3 \cdot (N_1^2 + 1)) \cdot \sqrt{N_1 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + 1))} \cdot N_1 \cdot N_2 \cdot N_3^2 \cdot (N_1^2 + 1)} \cdot R = 0.00000$$
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{z} \cdot \sqrt{\frac{7}{\mathbf{o}^2}} \cdot \sqrt{\mathbf{x} \cdot \mathbf{y} \cdot (\mathbf{p} \cdot \mathbf{x}^2 - \mathbf{y} \cdot \mathbf{x} \cdot \mathbf{o} + \mathbf{p} \cdot \mathbf{o}^2)}}{\frac{3}{\mathbf{o}^2} \cdot \sqrt{\mathbf{z} \cdot \mathbf{x}^2 \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{x} \cdot \mathbf{y} \cdot (\mathbf{p} \cdot \mathbf{x}^2 - \mathbf{y} \cdot \mathbf{x} \cdot \mathbf{o} + \mathbf{p} \cdot \mathbf{o}^2)}} + \mathbf{o}^2 \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{x} \cdot \mathbf{y} \cdot (\mathbf{p} \cdot \mathbf{x}^2 - \mathbf{y} \cdot \mathbf{x} \cdot \mathbf{o} + \mathbf{p} \cdot \mathbf{o}^2)}} + \mathbf{x}^2 \cdot \mathbf{y}^2 \cdot \mathbf{z} \cdot \mathbf{o}^{\frac{3}{2}} - \mathbf{x} \cdot \mathbf{y} \cdot \mathbf{z} \cdot \mathbf{o}^{\frac{5}{2}} \cdot \mathbf{p} - \mathbf{x}^3 \cdot \mathbf{y} \cdot \mathbf{z} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.33333$ $N_2 := 1.32323$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BH := \frac{N_1 \cdot AB}{BN_1}$$

$$HJ := \frac{AB \cdot BH}{BN_1} \quad BE := \frac{N_2 \cdot HJ}{AB}$$

$$BG := \frac{BE \cdot AB}{AB - HJ} \quad FG := \sqrt{BG \cdot (AB - BG)}$$

$$R := \frac{BG \cdot AB}{FG} \quad R = 1.736792$$

Definitions.

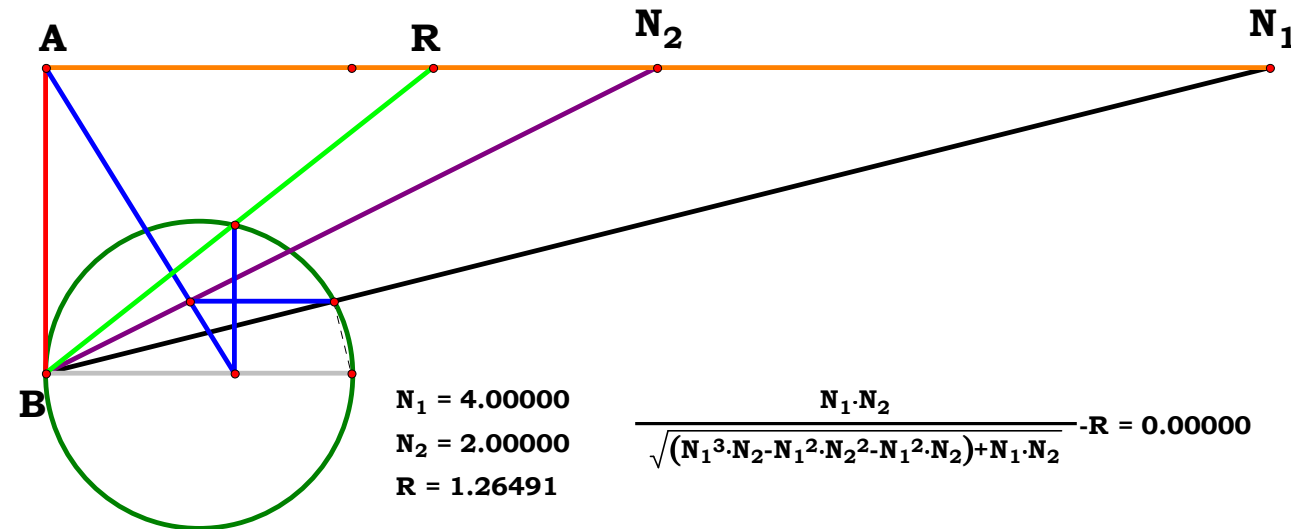
$$R - \frac{N_1 \cdot N_2}{\sqrt{N_1^3 \cdot N_2 - N_1^2 \cdot N_2^2 - N_1^2 \cdot N_2 + N_1 \cdot N_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{\sqrt{A \cdot N_u}}{\sqrt{B \cdot A^2 - A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2}} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot \sqrt{p}}{\sqrt{Y \cdot Z \cdot (Y^2 \cdot q + p^2 \cdot q - Y \cdot Z \cdot p - Y \cdot p \cdot q)}} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $R = 1.26491$

$$\frac{N_1 \cdot N_2}{\sqrt{(N_1^3 \cdot N_2 - N_1^2 \cdot N_2^2 - N_1^2 \cdot N_2) + N_1 \cdot N_2}} - R = 0.00000$$

30BT4R7

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BE} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{BE}}{\mathbf{BN}_1} \quad \mathbf{DF} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{\mathbf{N}_2}$$

$$R := \frac{BF \cdot AB}{AB - DF} \quad R = 2.142064$$

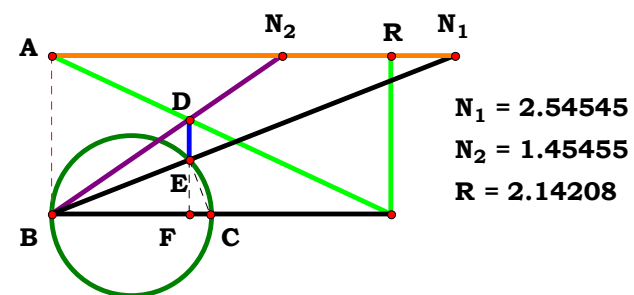
$$R - \frac{N_1^2 \cdot N_2}{N_1^2 \cdot N_2 - N_1^2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2}{A^2 + N_u^2 - B \cdot N_u} = 0$$

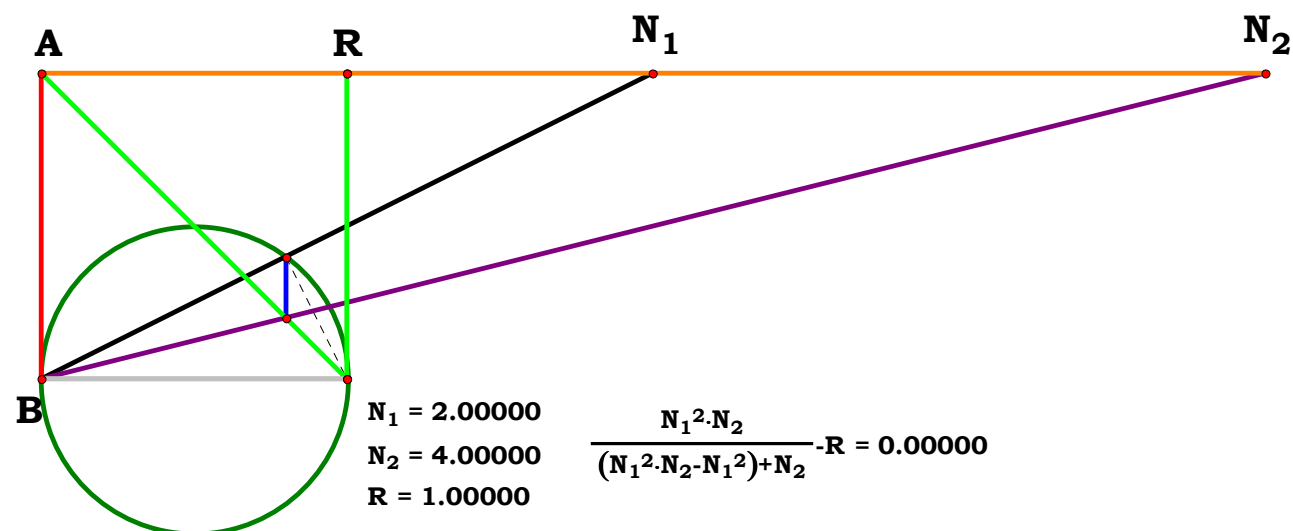
$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

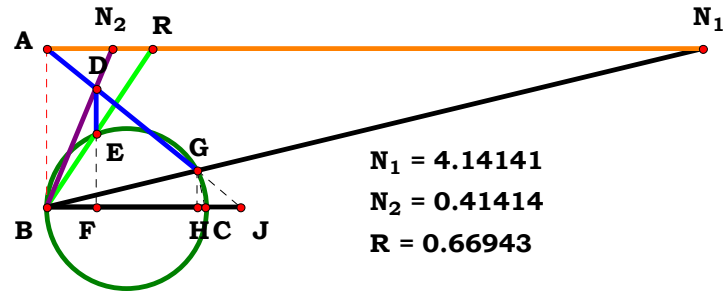
$$R - \frac{Y^2 \cdot Z}{Y^2 \cdot Z + Z \cdot p^2 - Y^2 \cdot q} = 0$$



Unit. AB := 1 **Given.** $N_1 := 2.54545$ $N_2 := 1.45455$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$





$N_1 = 4.14141$
 $N_2 = 0.41414$
 $R = 0.66943$

Unit. $AB := 1$ Given. $N_1 := 4.14141$ $N_2 := .41414$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1 \cdot AB}{BN_1}$$

$$GH := \frac{AB \cdot BG}{BN_1} \quad BH := \frac{N_1 \cdot BG}{BN_1}$$

$$BJ := \frac{BH \cdot AB}{AB - GH} \quad BF := \frac{N_2 \cdot BJ}{N_2 + BJ}$$

$$EF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{EF}$$

$R = 0.669427$

Definitions.

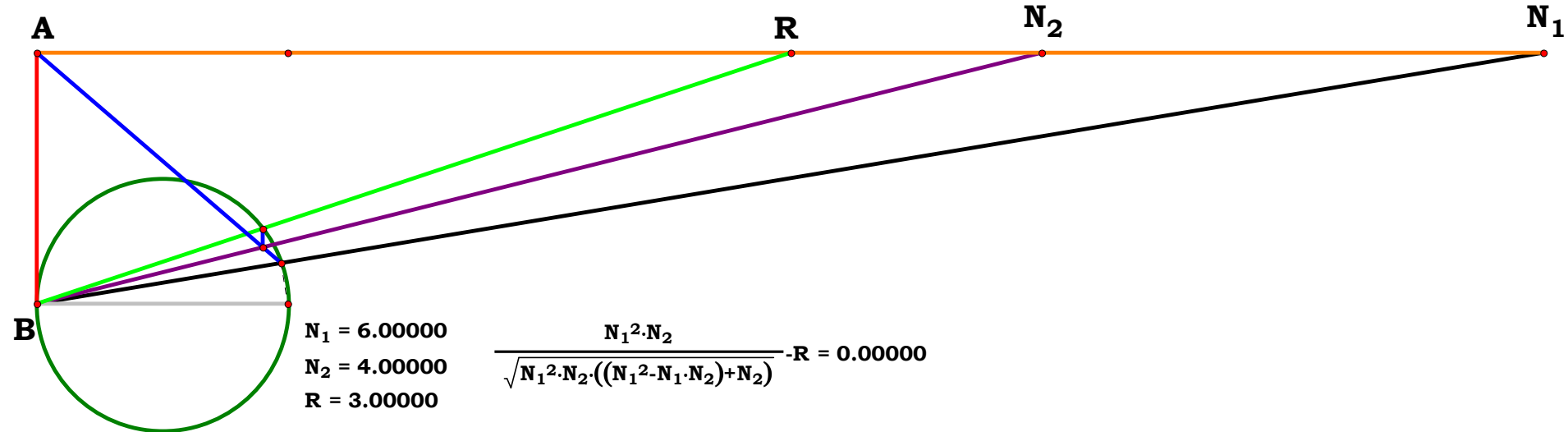
$$R - \frac{N_1^2 \cdot N_2}{\sqrt{N_1^2 \cdot N_2 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u}{\sqrt{A^2 - N_u \cdot A + B \cdot N_u}} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot Z}{\sqrt{q \cdot Y^4 \cdot Z - Y^3 \cdot Z^2 \cdot p + Y^2 \cdot Z^2 \cdot p^2}} = 0$$



$N_1 = 6.00000$
 $N_2 = 4.00000$
 $R = 3.00000$

$$\frac{N_1^2 \cdot N_2}{\sqrt{N_1^2 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + N_2)}} - R = 0.00000$$



Unit.
 $\underline{AB} := 1$
 Given.

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BF := \frac{N_1 \cdot AB}{BN_1}$$

$$BH := \frac{N_1 \cdot BF}{BN_1} \quad HJ := N_3 - BH$$

$$GH := \frac{AB \cdot HJ}{N_3} \quad R := \frac{N_2 \cdot GH}{AB}$$

$$R = 1.228529$$

Definitions.

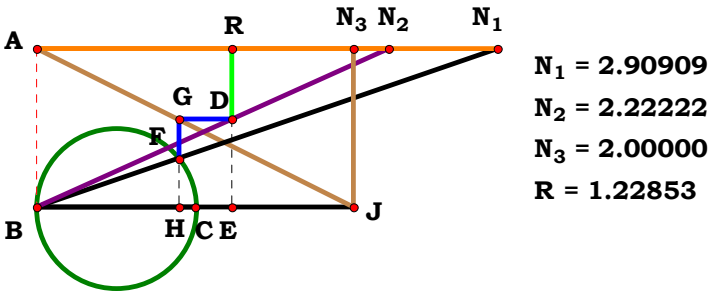
$$R - \frac{N_2 \cdot (N_3 + N_1^2 \cdot N_3 - N_1^2)}{N_1^2 \cdot N_3 + N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{B \cdot (A^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

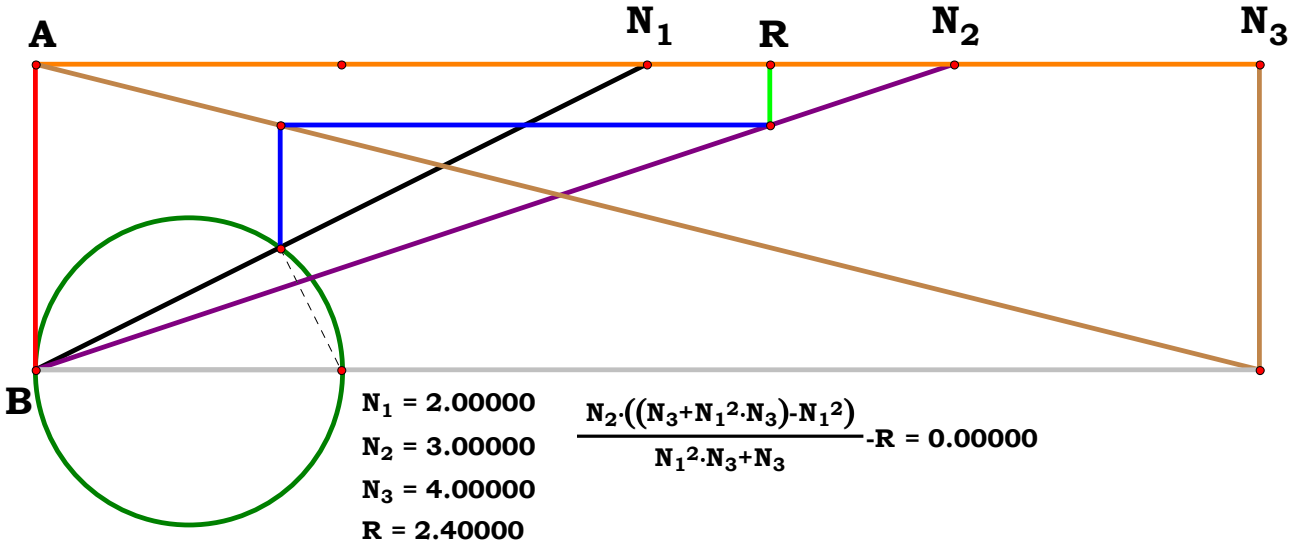
$$R - \frac{X^2 \cdot Y \cdot (Z - q) + Y \cdot Z \cdot o^2}{Z \cdot p \cdot (X^2 + o^2)} = 0$$

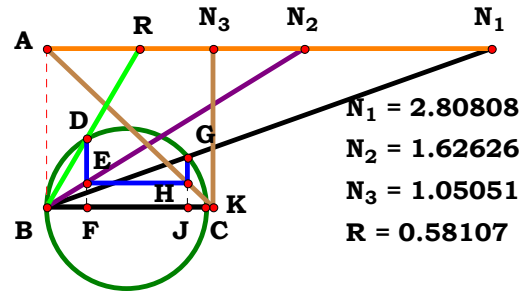


Unit. $AB := 1$ Given. $N_1 := 2.90909$ $N_2 := 2.22222$ $N_3 := 2$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$





Unit. $AB := 1$ Given. $N_1 := 2.80808$ $N_2 := 1.62626$ $N_3 := 1.05051$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1 \cdot AB}{BN_1}$$

$$BJ := \frac{N_1 \cdot BG}{BN_1} \quad JK := N_3 - BJ$$

$$HJ := \frac{AB \cdot JK}{N_3} \quad BF := N_2 \cdot HJ$$

$$DF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{DF}$$

$$R = 0.581077$$

Definitions.

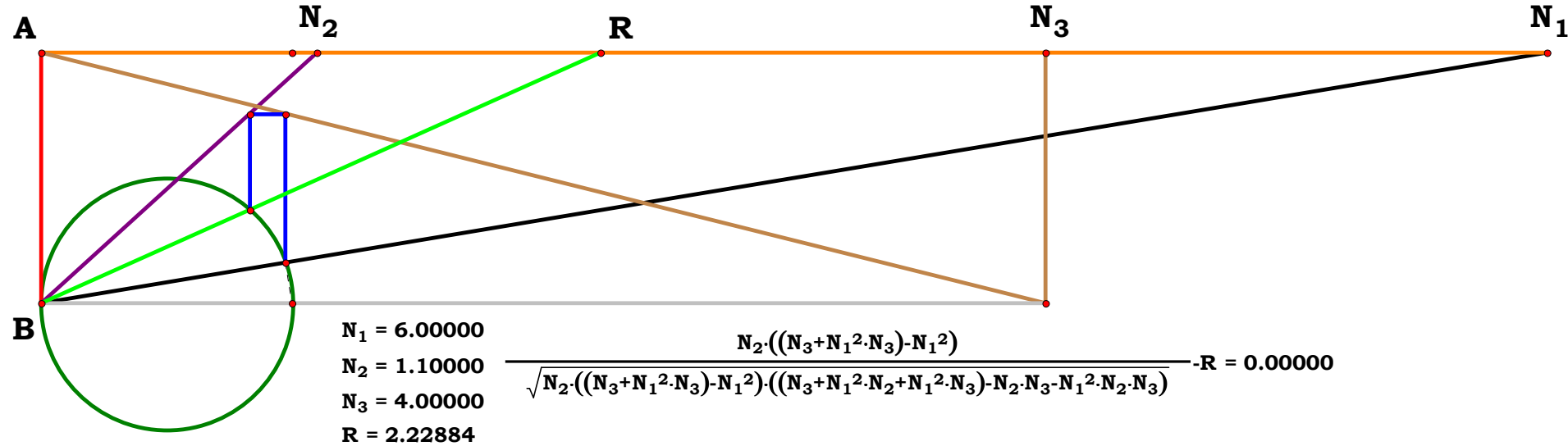
$$R - \frac{N_2 \cdot (N_3 + N_1^2 \cdot N_3 - N_1^2)}{\sqrt{N_2 \cdot (N_3 + N_1^2 \cdot N_3 - N_1^2) \cdot (N_3 + N_1^2 \cdot N_2 + N_1^2 \cdot N_3 - N_2 \cdot N_3 - N_1^2 \cdot N_2 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u \cdot (A^2 + N_u^2 - C \cdot N_u) \cdot (A^2 \cdot B - N_u^3 - A^2 \cdot N_u + B \cdot N_u^2 + C \cdot N_u^2)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot (X^2 \cdot Z + Z \cdot o^2 - X^2 \cdot q)}{\sqrt{Y \cdot (X^2 \cdot Z + Z \cdot o^2 - X^2 \cdot q) \cdot (X^2 \cdot Y \cdot q - Y \cdot Z \cdot o^2 - X^2 \cdot Y \cdot Z + X^2 \cdot Z \cdot p + Z \cdot o^2 \cdot p)}} = 0$$

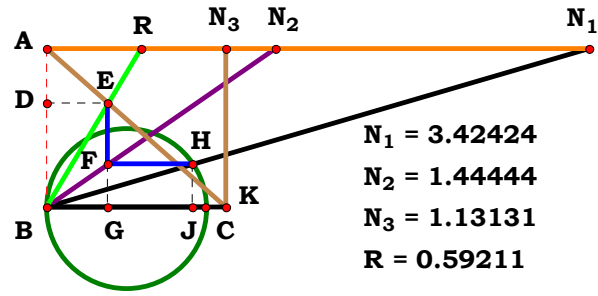


$N_1 = 6.00000$
 $N_2 = 1.10000$
 $N_3 = 4.00000$
 $R = 2.22884$

$$\frac{N_2 \cdot ((N_3 + N_1^2 \cdot N_3) - N_1^2)}{\sqrt{N_2 \cdot ((N_3 + N_1^2 \cdot N_3) - N_1^2) \cdot ((N_3 + N_1^2 \cdot N_2 + N_1^2 \cdot N_3) - N_2 \cdot N_3 - N_1^2 \cdot N_2 \cdot N_3)}} - R = 0.00000$$



30BT5R3



$N_1 = 3.42424$
 $N_2 = 1.44444$
 $N_3 = 1.13131$
 $R = 0.59211$

Unit. $AB := 1$ Given. $N_1 := 3.42424$ $N_2 := 1.44444$ $N_3 := 1.13131$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BH := \frac{N_1 \cdot AB}{BN_1}$$

$$HJ := \frac{AB \cdot BH}{BN_1} \quad BG := N_2 \cdot HJ$$

$$EG := \frac{AB \cdot (N_3 - BG)}{N_3} \quad R := \frac{BG \cdot AB}{EG}$$

$$R = 0.592107$$

Definitions.

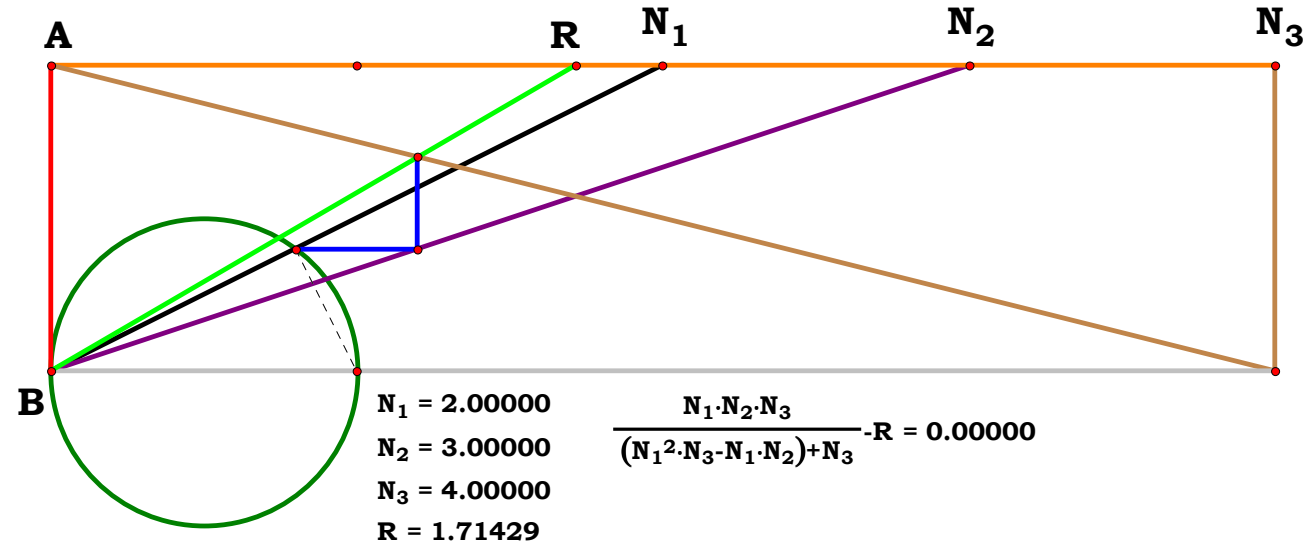
$$R - \frac{N_1 \cdot N_2 \cdot N_3}{N_1^2 \cdot N_3 - N_1 \cdot N_2 + N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u^2}{B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot o}{Z \cdot p \cdot X^2 - Y \cdot q \cdot X \cdot o + Z \cdot p \cdot o^2} = 0$$

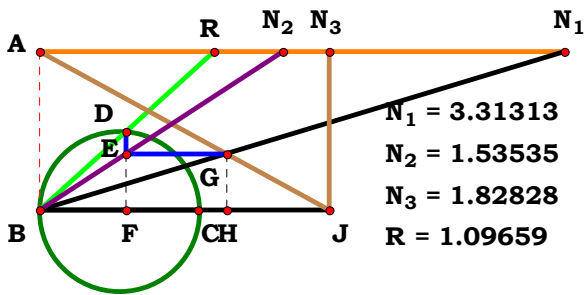


$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $R = 1.71429$

$$\frac{N_1 \cdot N_2 \cdot N_3}{(N_1^2 \cdot N_3 - N_1 \cdot N_2) + N_3} - R = 0.00000$$



30BT5R4



$N_1 = 3.31313$
 $N_2 = 1.53535$
 $N_3 = 1.82828$
 $R = 1.09659$

Unit. $AB := 1$ Given. $N_1 := 3.31313$ $N_2 := 1.53535$ $N_3 := 1.82828$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BH := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad GH := \frac{AB \cdot BH}{N_1}$$

$$BF := N_2 \cdot GH \quad DF := \sqrt{BF \cdot (AB - BF)}$$

$$R := \frac{BF \cdot AB}{DF} \quad R = 1.096582$$

Definitions.

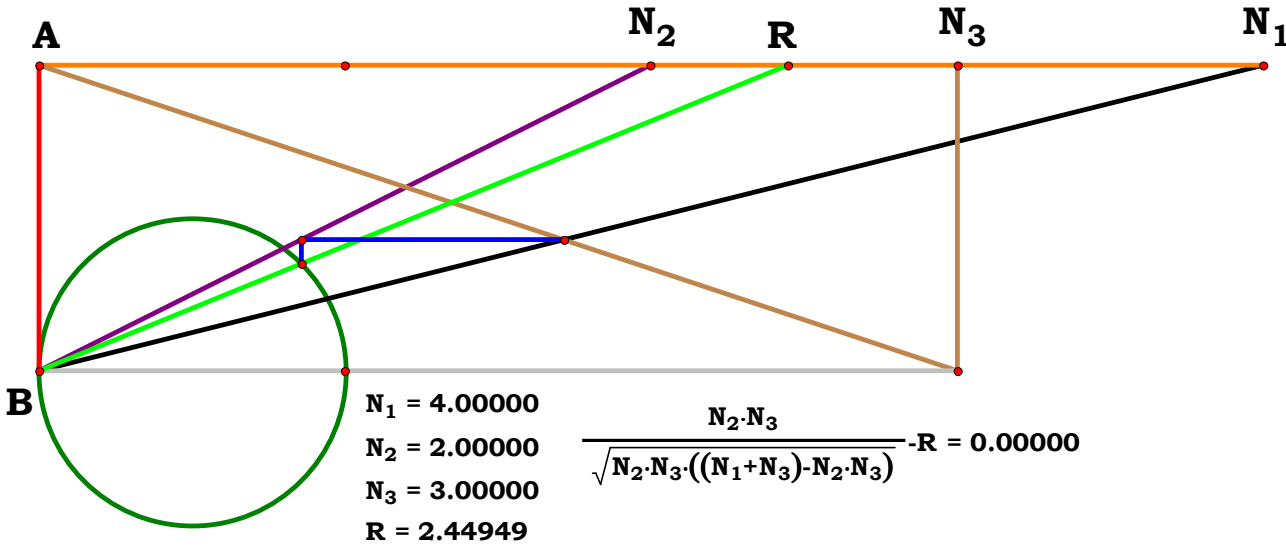
$$R - \frac{N_2 \cdot N_3}{\sqrt{N_2 \cdot N_3 \cdot (N_1 + N_3 - N_2 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A \cdot N_u}}{\sqrt{N_u \cdot (A \cdot B + B \cdot C - A \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

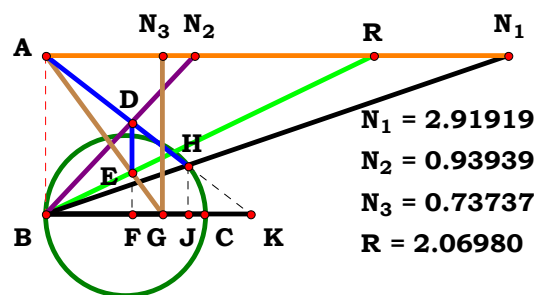
$$R - \frac{N_2 \cdot N_3}{\sqrt{N_2 \cdot N_3 \cdot (N_1 + N_3 - N_2 \cdot N_3)}} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $R = 2.44949$

$$\frac{N_2 \cdot N_3}{\sqrt{N_2 \cdot N_3 \cdot ((N_1 + N_3) - N_2 \cdot N_3)}} \cdot R = 0.00000$$

30BT5R5



Unit. AB := 1 Given. $N_1 := 2.91919$ $N_2 := .93939$ $N_3 := .73737$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BH} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{BJ} := \frac{\mathbf{N}_1 \cdot \mathbf{BH}}{\mathbf{BN}_1} \quad \mathbf{HJ} := \frac{\mathbf{AB} \cdot \mathbf{BJ}}{\mathbf{N}_1}$$

$$\mathbf{BK} := \frac{\mathbf{BJ} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{HJ}} \quad \mathbf{BF} := \frac{\mathbf{N}_2 \cdot \mathbf{BK}}{\mathbf{N}_2 + \mathbf{BK}}$$

$$\mathbf{FG} := \mathbf{N}_3 - \mathbf{BF} \quad \mathbf{EF} := \frac{\mathbf{AB} \cdot \mathbf{FG}}{\mathbf{N}_3}$$

$$\mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{EF}} \quad \mathbf{R} = 2.069809$$

Definitions.

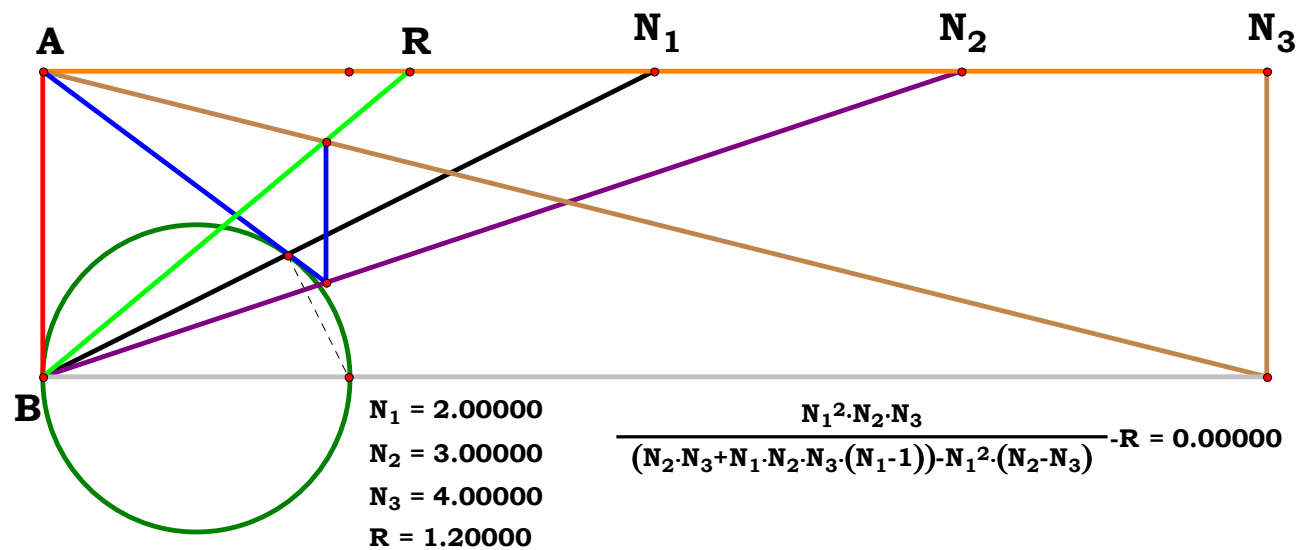
$$R - \frac{N_1^2 \cdot N_2 \cdot N_3}{N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_3 \cdot (N_1 - 1) - N_1^2 \cdot (N_2 - N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2}{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z}{X^2 \cdot Y \cdot Z + Y \cdot Z \cdot o^2 - X^2 \cdot Y \cdot q + X^2 \cdot Z \cdot p - X \cdot Y \cdot Z \cdot o} = 0$$





30BT5R6

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1 \cdot AB}{BN_1}$$

$$DE := \frac{AB \cdot BG}{BN_1} \quad BE := N_1 \cdot DE$$

$$BJ := \frac{BE \cdot AB}{AB - DE} \quad BF := \frac{N_2 \cdot BJ}{N_2 + BJ}$$

$$FH := AB \cdot \frac{(N_3 - BF)}{N_3} \quad R := N_4 \cdot FH$$

$$R = 3.846154$$

Definitions.

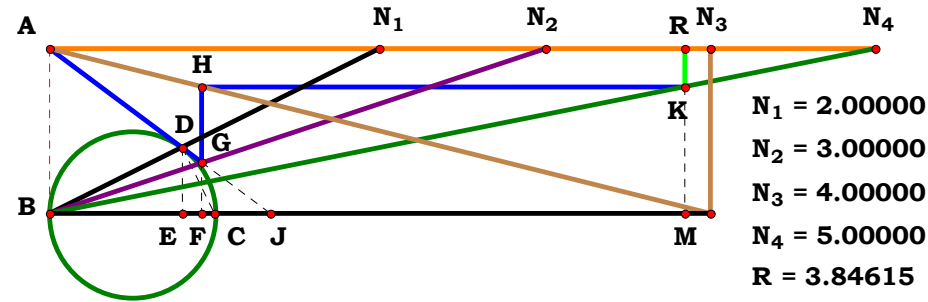
$$R - \frac{[N_3 \cdot [N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)] - N_1^2 \cdot N_2] \cdot N_4}{N_2 \cdot N_3 \cdot (N_1^2 - N_1 + 1) + N_1^2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)}{D \cdot (A^2 - A \cdot N_u + N_u^2 + B \cdot N_u)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

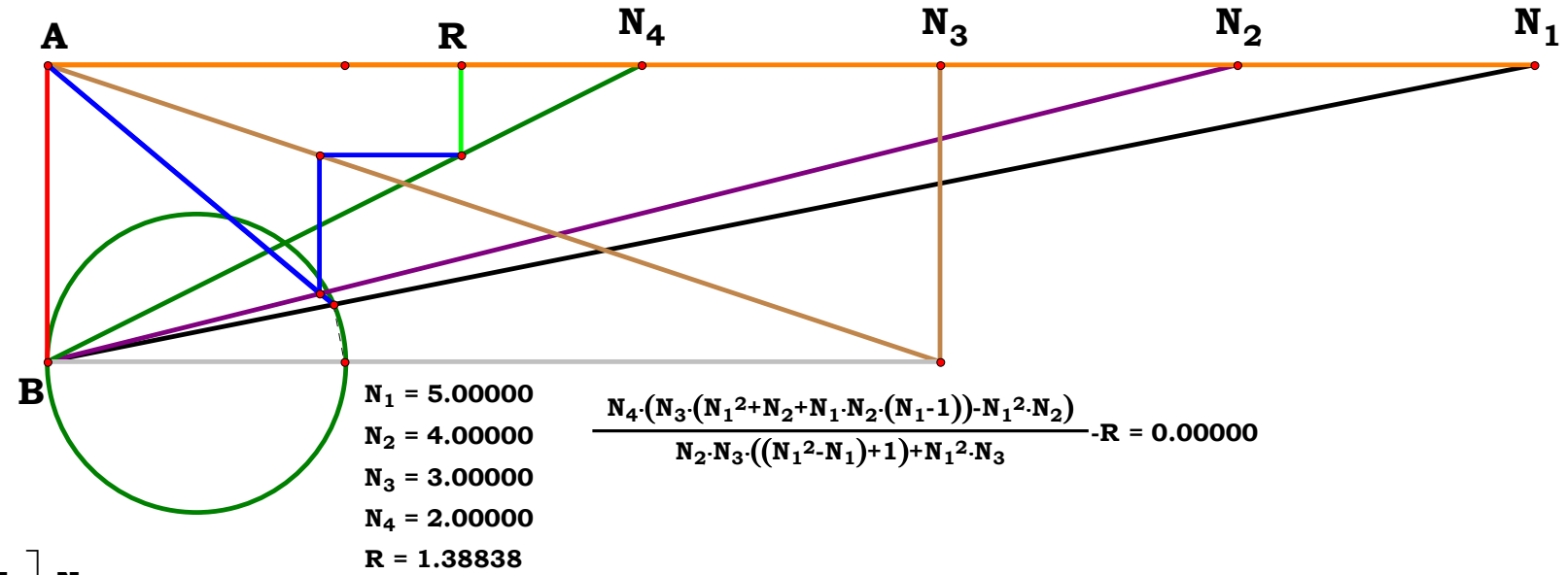
$$R - \frac{W^2 \cdot Z \cdot (X \cdot Y - X \cdot o + Y \cdot n) + X \cdot Y \cdot Z \cdot m \cdot (m - W)}{W^2 \cdot Y \cdot p \cdot (X + n) + X \cdot Y \cdot m \cdot p \cdot (m - W)} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2 \quad N_2 := 3 \quad N_3 := 4 \quad N_4 := 5$$

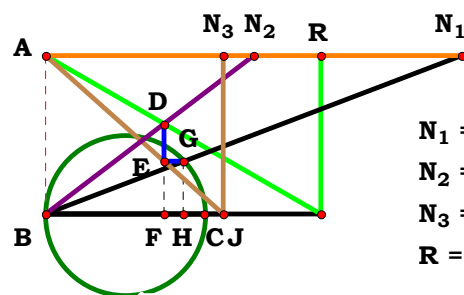
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$$\frac{N_4 \cdot (N_3 \cdot (N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)) - N_1^2 \cdot N_2)}{N_2 \cdot N_3 \cdot ((N_1^2 - N_1) + 1) + N_1^2 \cdot N_3} - R = 0.00000$$

30BT5R7



Unit. AB := 1 Given. $N_1 := 2.62626$ $N_2 := 1.31313$ $N_3 := 1.12121$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

Descriptions.

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{GH} := \frac{\mathbf{AB} \cdot \mathbf{BG}}{\mathbf{BN}_1} \quad \mathbf{FJ} := \mathbf{N}_3 \cdot \mathbf{GH}$$

$$\mathbf{BF} := \mathbf{N}_3 - \mathbf{FJ} \quad \mathbf{DF} := \frac{\mathbf{AB} \cdot \mathbf{BF}}{\mathbf{N}_2}$$

$$\mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{DF}} \quad \mathbf{R} = 1.73992$$

Definitions.

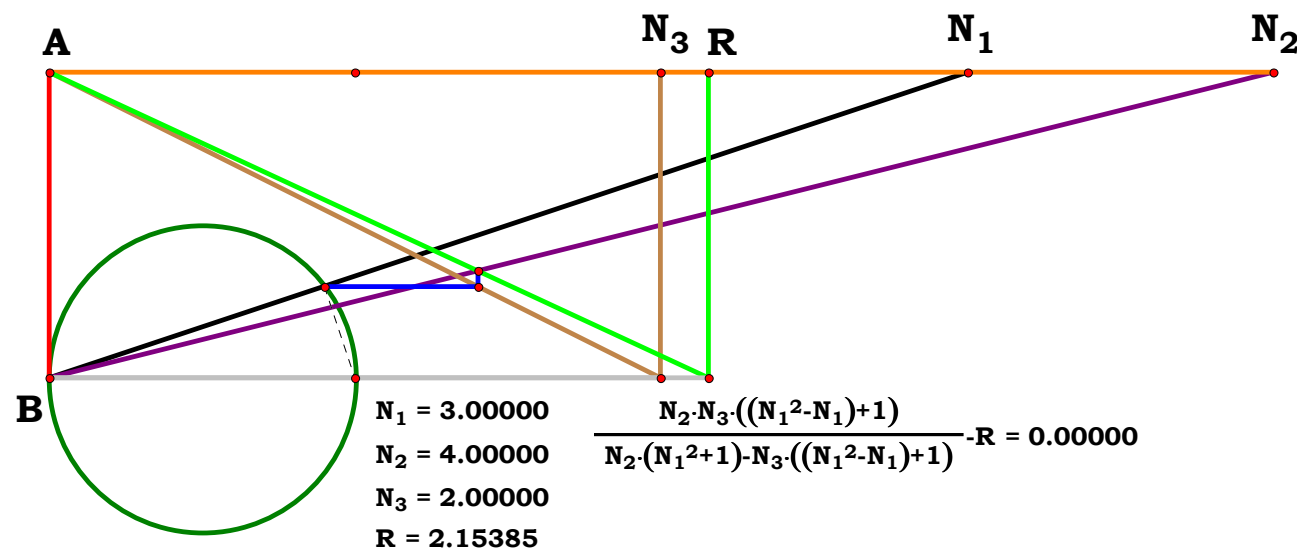
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 - N_1 + 1)}{(N_1^2 + 1) \cdot N_2 - N_3 \cdot (N_1^2 - N_1 + 1)} = 0$$

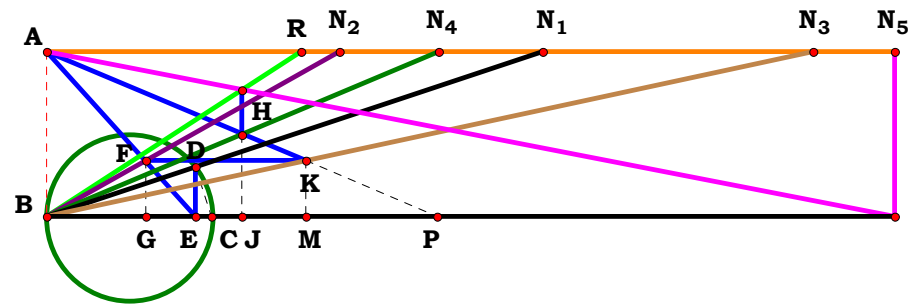
$$\mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 - X \cdot o + o^2)}{X^2 \cdot Y \cdot q - X^2 \cdot Z \cdot p + Y \cdot o^2 \cdot q - Z \cdot o^2 \cdot p + X \cdot Z \cdot o \cdot p} = 0$$





$N_1 = 3.00000$
 $N_2 = 1.76991$
 $N_3 = 4.64163$
 $N_4 = 2.37279$
 $N_5 = 5.12938$
 $R = 1.53806$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.76991$ $N_3 := 4.64163$

$N_4 := 2.37279$ $N_5 := 5.12938$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BD := \frac{N_1 \cdot AB}{BN_1}$$

$$BE := \frac{N_1 \cdot BD}{BN_1} \quad FG := \frac{BE}{BE + N_2}$$

$$BM := N_3 \cdot FG \quad BP := \frac{BM \cdot AB}{AB - FG}$$

$$BJ := \frac{BP \cdot N_4}{BP + N_4} \quad HJ := \frac{AB \cdot (N_5 - BJ)}{N_5}$$

$$R := \frac{BJ}{HJ} \quad R = 1.53806$$

Definitions.

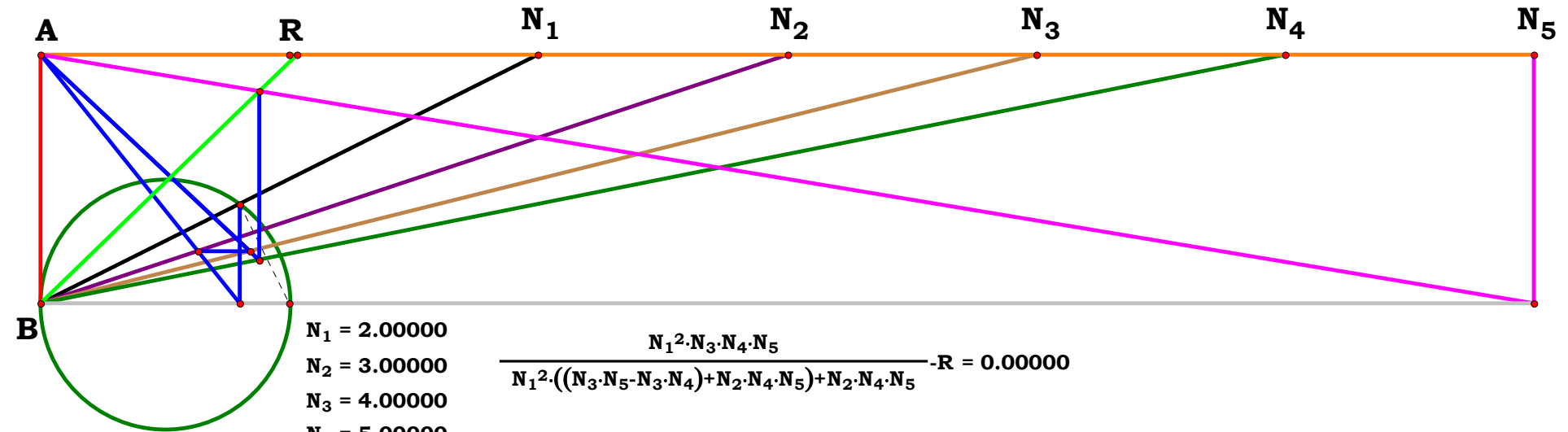
$$R - \frac{N_1^2 \cdot N_3 \cdot N_4 \cdot N_5}{N_1^2 \cdot (N_3 \cdot N_5 - N_3 \cdot N_4 + N_2 \cdot N_4 \cdot N_5) + N_2 \cdot N_4 \cdot N_5} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u^2}{A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

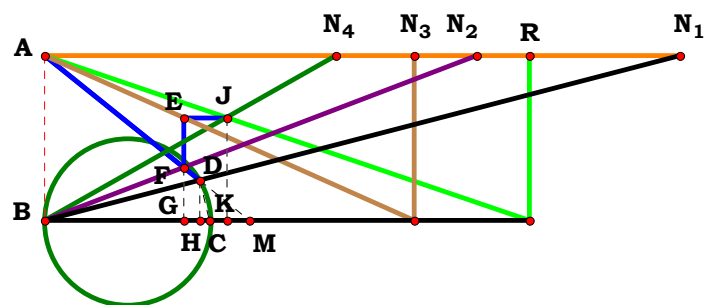
$$R - \frac{V^2 \cdot X \cdot Y \cdot Z \cdot m}{V^2 \cdot (W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o) + W \cdot Y \cdot Z \cdot n \cdot l^2} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $N_5 = 6.00000$
 $R = 1.03004$

$$\frac{N_1^2 \cdot N_3 \cdot N_4 \cdot N_5}{N_1^2 \cdot ((N_3 \cdot N_5 - N_3 \cdot N_4) + N_2 \cdot N_4 \cdot N_5) + N_2 \cdot N_4 \cdot N_5} - R = 0.00000$$

30BT5R9



N₁ = 3.84266
N₂ = 2.61257
N₃ = 2.23955
N₄ = 1.76258
R = 2.93581

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

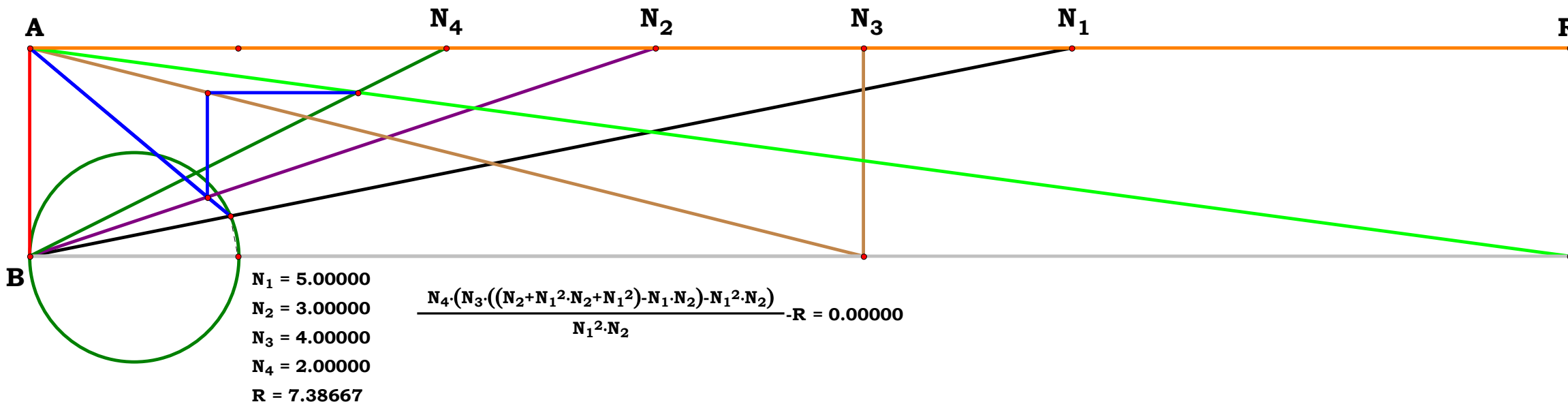
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BD} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{DH} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_1} \qquad \mathbf{BH} := \frac{\mathbf{N}_1 \cdot \mathbf{BD}}{\mathbf{BN}_1}$$

$$\mathbf{BM} := \frac{\mathbf{BH} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{DH}} \qquad \mathbf{BG} := \frac{\mathbf{N}_2 \cdot \mathbf{BM}}{\mathbf{N}_2 + \mathbf{BM}}$$

$$\mathbf{EG} := \frac{\mathbf{N}_3 - \mathbf{BG}}{\mathbf{N}_3} \quad \mathbf{BK} := \mathbf{N}_4 \cdot \mathbf{EG}$$

$$\mathbf{R} := \frac{\mathbf{BK}}{\mathbf{AB} - \mathbf{EG}} \quad \mathbf{R} = 2.935802$$



Definitions.

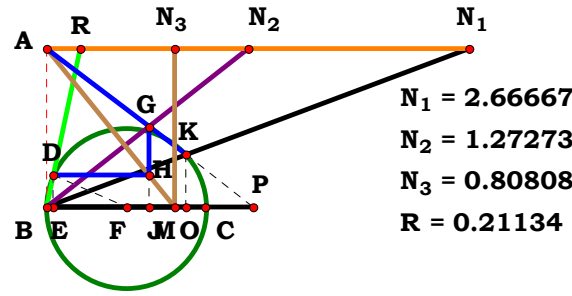
$$R - \frac{N_4 \cdot [N_3 \cdot (N_2 + N_1^2 \cdot N_2 + N_1^2 - N_1 \cdot N_2) - N_1^2 \cdot N_2]}{N_1^2 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u}{C \cdot D} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{W^2 \cdot X \cdot Y \cdot Z + X \cdot Y \cdot Z \cdot m^2 - W^2 \cdot X \cdot Z \cdot o + W^2 \cdot Y \cdot Z \cdot n - W \cdot X \cdot Y \cdot Z \cdot m}{W^2 \cdot X \cdot o \cdot p} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.66667$ $N_2 := 1.27273$ $N_3 := .80808$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BK := \frac{N_1 \cdot AB}{BN_1}$$

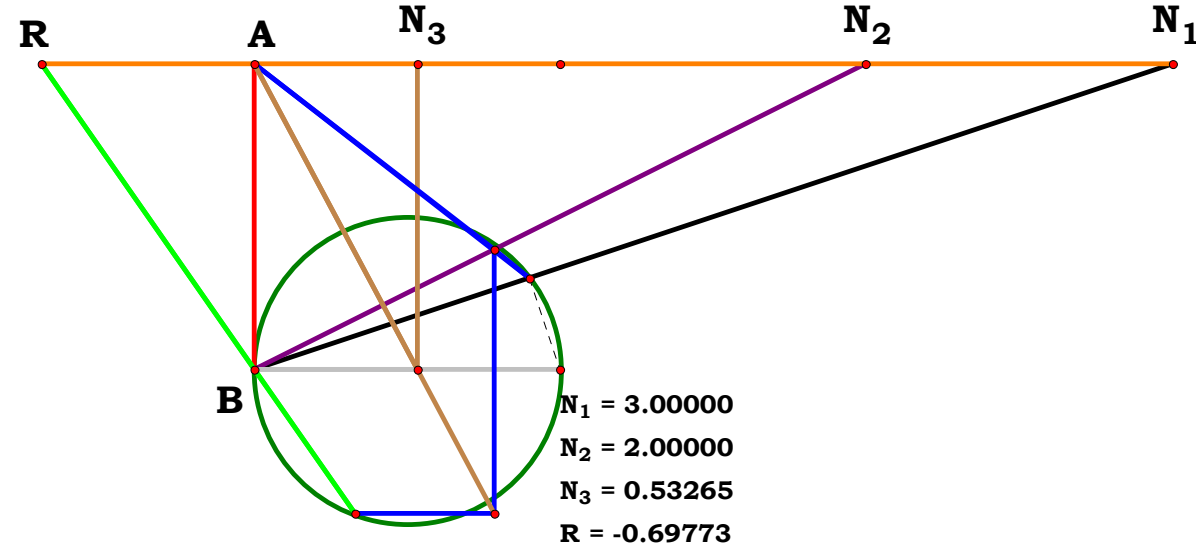
$$BO := \frac{N_1 \cdot BK}{BN_1} \quad KO := \frac{AB \cdot BK}{BN_1}$$

$$BP := \frac{BO \cdot AB}{AB - KO} \quad BJ := \frac{N_2 \cdot BP}{N_2 + BP}$$

$$JO := N_3 - BJ \quad HJ := \frac{AB \cdot JO}{N_3}$$

$$EF := \sqrt{\left(\frac{AB}{2}\right)^2 - HJ^2} \quad BE := \frac{AB}{2} - EF$$

$$R := \frac{BE \cdot AB}{HJ} \quad R = 0.211336$$



$$\frac{N_3 \cdot (N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)) - \sqrt{8 \cdot N_1^2 \cdot N_2 \cdot N_3 \cdot (N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)) - 4 \cdot N_1^4 \cdot N_2^2 - 3 \cdot N_3^2 \cdot (N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1))^2}}{(2 \cdot (N_3 \cdot (N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)) - N_1^2 \cdot N_2))} \cdot R = 0.00000$$

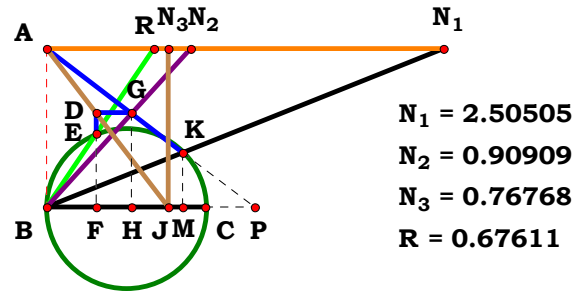
Definitions.

$$R - \frac{N_3 \cdot [N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)] - \sqrt{8 \cdot N_1^2 \cdot N_2 \cdot N_3 \cdot [N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)] - 4 \cdot N_1^4 \cdot N_2^2 - 3 \cdot N_3^2 \cdot [N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)]^2}}{2 \cdot [N_3 \cdot [N_1^2 + N_2 + N_1 \cdot N_2 \cdot (N_1 - 1)] - N_1^2 \cdot N_2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^4 - N_u^2 \cdot \sqrt{(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u) \cdot (A \cdot N_u - N_u^2 - A^2 - B \cdot N_u + 2 \cdot C \cdot N_u)} + N_u^2 \cdot (A^2 - N_u \cdot A + B \cdot N_u)}{2 \cdot N_u^2 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z - \sqrt{-(X^2 \cdot Y \cdot Z + Y \cdot Z \cdot o^2 - 2 \cdot X^2 \cdot Y \cdot q + X^2 \cdot Z \cdot p - X \cdot Y \cdot Z \cdot o) \cdot (3 \cdot X^2 \cdot Y \cdot Z + 3 \cdot Y \cdot Z \cdot o^2 - 2 \cdot X^2 \cdot Y \cdot q + 3 \cdot X^2 \cdot Z \cdot p - 3 \cdot X \cdot Y \cdot Z \cdot o)} + Y \cdot Z \cdot o^2 + X^2 \cdot Z \cdot p - X \cdot Y \cdot Z \cdot o}{2 \cdot (X^2 \cdot Y \cdot Z + Y \cdot Z \cdot o^2 - X^2 \cdot Y \cdot q + X^2 \cdot Z \cdot p - X \cdot Y \cdot Z \cdot o)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.50505$ $N_2 := .90909$ $N_3 := .76768$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

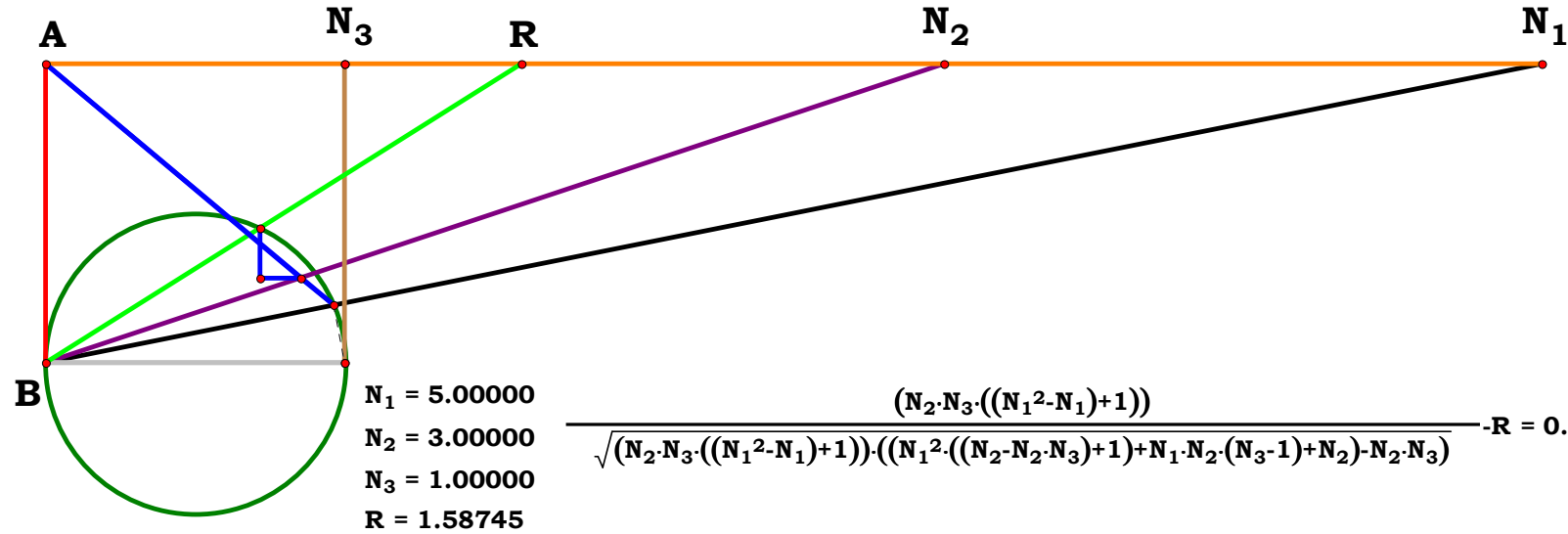
Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BK := \frac{N_1 \cdot AB}{BN_1} \quad KM := \frac{AB \cdot BK}{BN_1}$$

$$BM := \frac{N_1 \cdot BK}{BN_1} \quad BP := \frac{BM \cdot AB}{AB - KM} \quad BH := \frac{N_2 \cdot BP}{N_2 + BP}$$

$$GH := \frac{AB \cdot BH}{N_2} \quad FJ := N_3 \cdot GH \quad BF := N_3 - FJ$$

$$EF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{EF} \quad R = 0.676107$$



$N_1 = 5.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $R = 1.58745$

$$\frac{(N_2 \cdot N_3 \cdot ((N_1^2 - N_1) + 1))}{\sqrt{(N_2 \cdot N_3 \cdot ((N_1^2 - N_1) + 1)) \cdot ((N_1^2 \cdot ((N_2 - N_2 \cdot N_3) + 1) + N_1 \cdot N_2 \cdot (N_3 - 1) + N_2) - N_2 \cdot N_3)}} - R = 0.00000$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 - N_1 + 1)}{\sqrt{N_2 \cdot N_3 \cdot (N_1^2 - N_1 + 1) \cdot [N_1^2 \cdot (N_2 - N_2 \cdot N_3 + 1) + N_1 \cdot N_2 \cdot (N_3 - 1) + N_2 - N_2 \cdot N_3]}} = 0$$

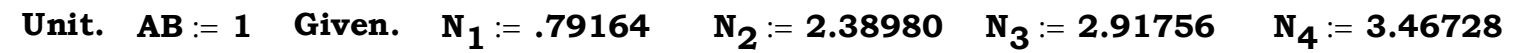
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot (C \cdot A^2 - A^2 \cdot N_u + A \cdot N_u^2 - C \cdot A \cdot N_u - N_u^3 + C \cdot N_u^2 + B \cdot C \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 - X \cdot o + o^2)}{\sqrt{Y \cdot Z \cdot (X^2 - X \cdot o + o^2) \cdot (X^2 \cdot Y \cdot q - Y \cdot Z \cdot o^2 - X^2 \cdot Y \cdot Z + Y \cdot o^2 \cdot q + X^2 \cdot p \cdot q + X \cdot Y \cdot Z \cdot o - X \cdot Y \cdot o \cdot q)}} = 0$$

30BT6R0



$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

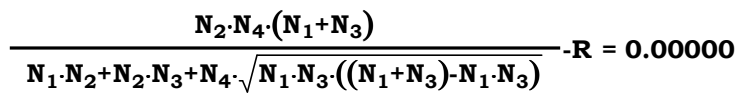
$$\mathbf{AP} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{EF}} \qquad \mathbf{R} := \frac{\mathbf{AP} \cdot \mathbf{N}_4}{\mathbf{AP} + \mathbf{N}_4}$$

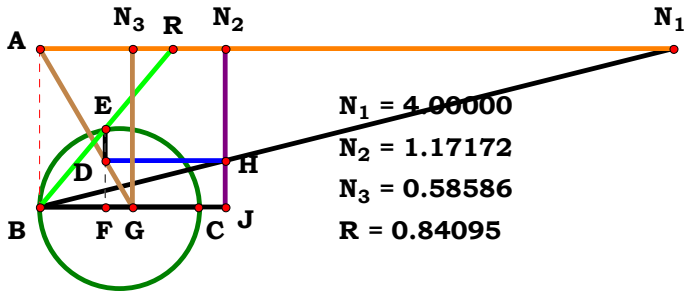
$$\mathbf{Boolean} := \frac{\mathbf{EF}^2 + \sqrt{\mathbf{EF}^4}}{2\sqrt{\mathbf{EF}^4}}$$

$$R - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_2 + N_2 \cdot N_3 + N_4 \cdot \sqrt{N_1 \cdot N_3 \cdot (N_1 + N_3 - N_1 \cdot N_3)}} = 0$$

$$R - \frac{N_u \cdot (A + C)}{B \cdot \sqrt{N_u \cdot (A + C - N_u)} + A \cdot D + C \cdot D} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{m})}{\mathbf{Z} \cdot \mathbf{n} \cdot \sqrt{\mathbf{W} \cdot \mathbf{Y} \cdot (\mathbf{W} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{Y} + \mathbf{Y} \cdot \mathbf{m})} + \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p} + \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} \cdot \mathbf{p}} = 0$$





Unit. $AB := 1$ Given. $N_1 := 4.00000$ $N_2 := 1.17172$ $N_3 := .58586$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$HJ := \frac{N_2}{N_1} \qquad BF := N_3 \cdot (AB - HJ)$$

$$EF := \sqrt{BF \cdot (AB - BF)} \qquad R := \frac{BF \cdot AB}{EF}$$

$$R = 0.840949$$

Definitions.

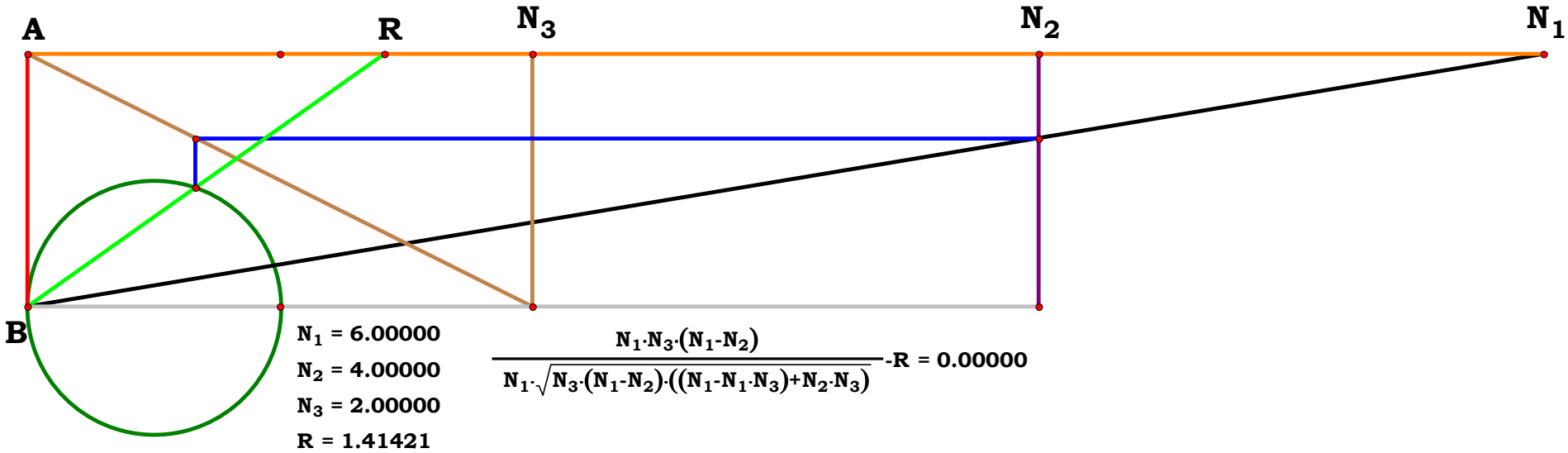
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_2)}{N_1 \cdot \sqrt{N_3 \cdot (N_1 - N_2) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}} = 0$$

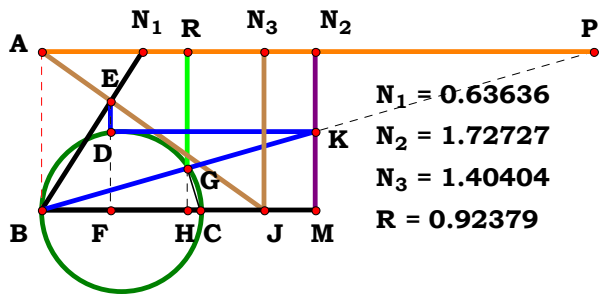
$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (B - A)}{\sqrt{N_u \cdot (B - A) \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \qquad N_2 - \frac{Y}{p} = 0 \qquad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p - Y \cdot o)}{\sqrt{Z \cdot (X \cdot p - Y \cdot o) \cdot (Y \cdot Z \cdot o - X \cdot Z \cdot p + X \cdot p \cdot q)}} = 0$$





Unit. $AB := 1$ Given. $N_1 := .63636$ $N_2 := 1.72727$ $N_3 := 1.40404$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BF := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad DF := \sqrt{BF \cdot (AB - BF)}$$

$$AP := \frac{N_2 \cdot AB}{DF} \quad BP := \sqrt{AP^2 + AB^2}$$

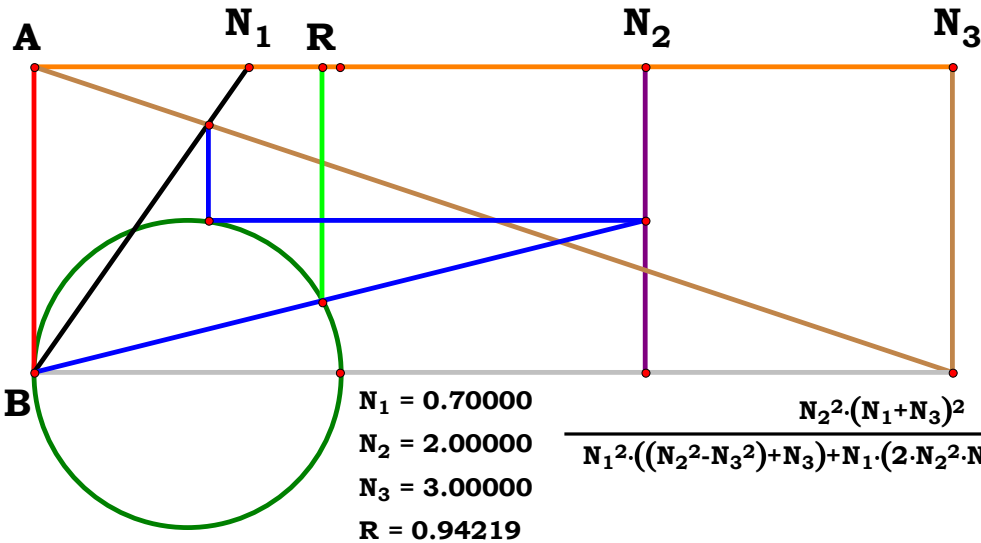
$$BG := \frac{AP \cdot AB}{BP} \quad R := \frac{AP \cdot BG}{BP}$$

$R = 0.923786$

$$\text{Boolean} := \frac{DF^2 + \sqrt{DF^4}}{2\sqrt{DF^4}}$$

Definitions.

$\text{Boolean} = 1$



$$\begin{aligned} N_1 &= 0.70000 \\ N_2 &= 2.00000 \\ N_3 &= 3.00000 \\ R &= 0.94219 \end{aligned} \quad \frac{N_2^2 \cdot (N_1 + N_3)^2}{N_1^2 \cdot ((N_2^2 - N_3^2) + N_3) + N_1 \cdot (2 \cdot N_2^2 \cdot N_3 + N_3^2) + N_2^2 \cdot N_3^2} - R = 0.00000$$

$$R - \frac{N_2^2 \cdot (N_1 + N_3)^2}{(N_2^2 - N_3^2 + N_3) \cdot N_1^2 + (2 \cdot N_2^2 \cdot N_3 + N_3^2) \cdot N_1 + N_2^2 \cdot N_3^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A + C)^2}{N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot (X \cdot q + Z \cdot o)^2}{X^2 \cdot (Y^2 \cdot q^2 - Z^2 \cdot p^2 + Z \cdot p^2 \cdot q) + X \cdot Z \cdot o \cdot (2 \cdot q \cdot Y^2 + Z \cdot p^2) + Y^2 \cdot Z^2 \cdot o^2} = 0$$



30BT6R3

Descriptions.

$$BF := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad EF := \sqrt{BF \cdot (AB - BF)}$$

$$AP := \frac{N_2 \cdot AB}{EF} \quad BJ := \frac{AP \cdot N_4}{AP + N_4}$$

$$GJ := \sqrt{BJ \cdot (AB - BJ)} \quad R := \frac{BJ \cdot AB}{GJ}$$

$$R = 1.92607$$

$$\text{Boolean} := \frac{BJ^2 + \sqrt{BJ^4}}{2\sqrt{BJ^4}}$$

Definitions.

$$\text{Boolean} = 1$$

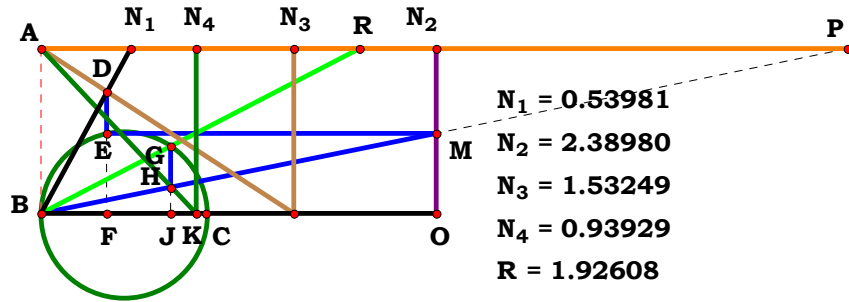
$$R - \frac{N_2 \cdot N_4 \cdot \sqrt{N_1 + N_3}}{\sqrt{N_2 \cdot N_4 \cdot [N_1 \cdot N_2 + N_2 \cdot N_3 + N_4 \cdot \sqrt{N_1 \cdot N_3 \cdot (N_1 + N_3 - N_1 \cdot N_3)} - N_2 \cdot N_4 \cdot (N_1 + N_3)]}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{N_u \cdot (A + C)}}{\sqrt{B \cdot \sqrt{A \cdot N_u - N_u^2} + C \cdot N_u + (A + C) \cdot (D - N_u)}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

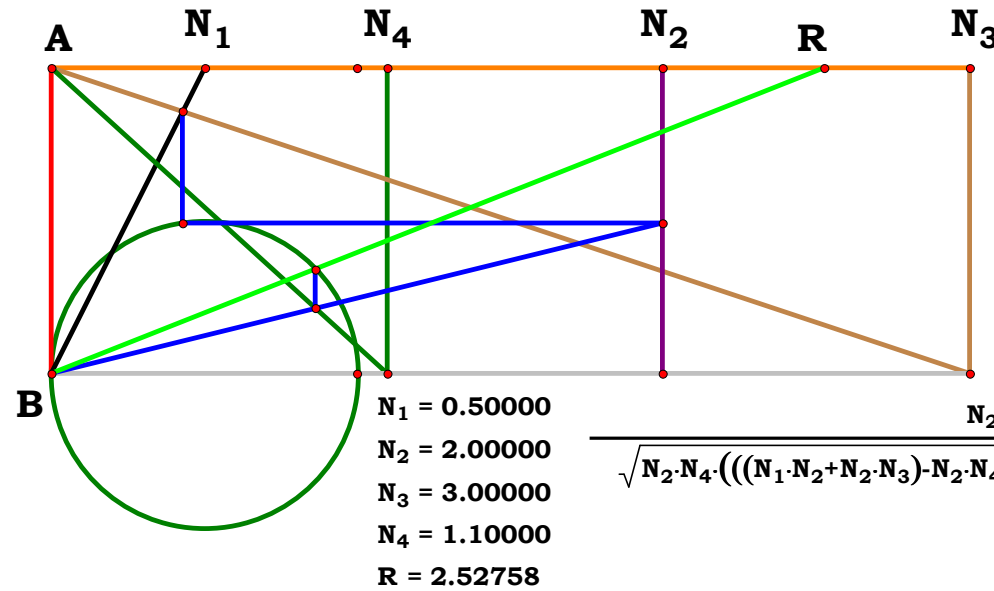
$$R - \frac{X \cdot Z \cdot \sqrt{W \cdot o + Y \cdot m}}{\sqrt{X \cdot Z \cdot [Z \cdot n \cdot \sqrt{W \cdot Y \cdot (W \cdot o - W \cdot Y + Y \cdot m)} - W \cdot X \cdot Z \cdot o - X \cdot Y \cdot Z \cdot m + W \cdot X \cdot o \cdot p + X \cdot Y \cdot m \cdot p]}} = 0$$



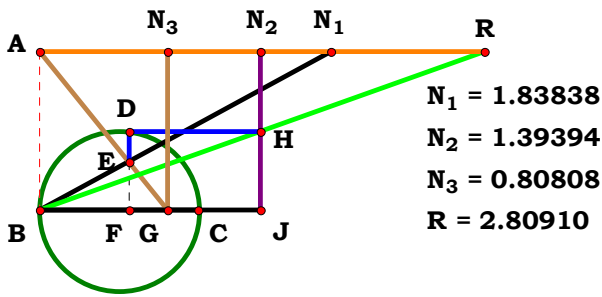
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .53981 \quad N_2 := 2.38980 \quad N_3 := 1.53249 \quad N_4 := .93929$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$$\frac{N_2 \cdot N_4 \cdot \sqrt{N_1 + N_3}}{\sqrt{N_2 \cdot N_4 \cdot (((N_1 \cdot N_2 + N_2 \cdot N_3) - N_2 \cdot N_4 \cdot (N_1 + N_3)) + N_4 \cdot \sqrt{N_1 \cdot N_3 \cdot ((N_1 + N_3) - N_1 \cdot N_3)})}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.83838$ $N_2 := 1.39394$ $N_3 := .80808$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$BF := \frac{N_1 \cdot N_3}{N_1 + N_3}$ $DF := \sqrt{BF \cdot (AB - BF)}$

$R := \frac{N_2 \cdot AB}{DF}$ $R = 2.809098$

$Boolean := \frac{DF^2 + \sqrt{DF^4}}{2\sqrt{DF^4}}$

Definitions.

$Boolean = 1$

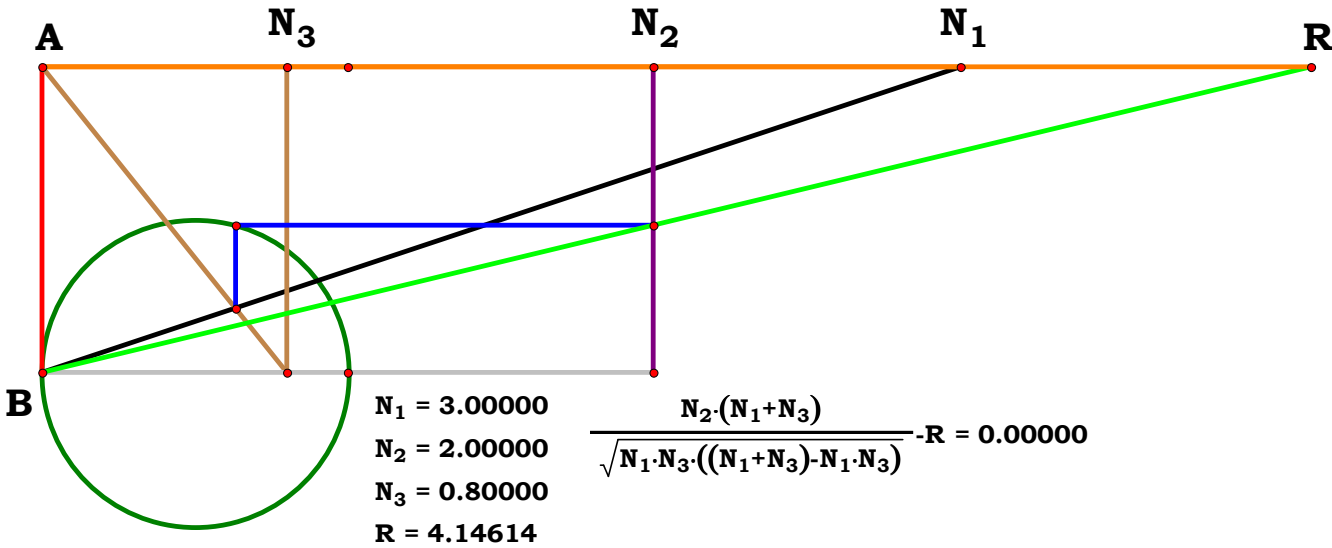
$R - \frac{N_2 \cdot (N_1 + N_3)}{\sqrt{N_1 \cdot N_3 \cdot ((N_1 + N_3) - N_1 \cdot N_3)}} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$

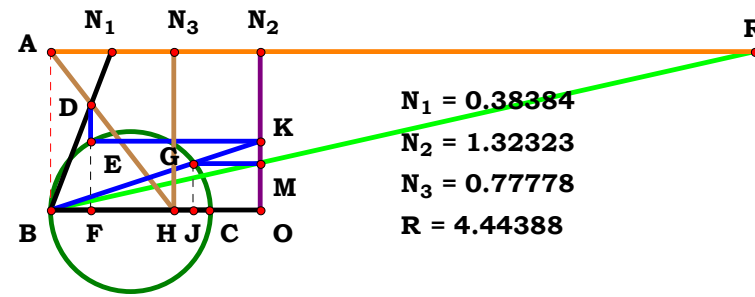
$R - \frac{N_u \cdot (A + C)}{B \cdot \sqrt{N_u \cdot (A + C - N_u)}} = 0$

$N_1 - \frac{X}{o} = 0$ $N_2 - \frac{Y}{p} = 0$ $N_3 - \frac{Z}{q} = 0$

$R - \frac{Y \cdot (X \cdot q + Z \cdot o)}{p \cdot \sqrt{X \cdot Z \cdot (X \cdot q - X \cdot Z + Z \cdot o)}} = 0$



30BT6R5



Unit. AB := 1 Given. $N_1 := .38384$ $N_2 := 1.32323$ $N_3 := .77778$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

Descriptions.

$$\mathbf{BF} := \frac{\mathbf{N}_1 \cdot \mathbf{N}_3}{\mathbf{N}_1 + \mathbf{N}_3} \quad \mathbf{EF} := \sqrt{\mathbf{BF} \cdot (\mathbf{AB} - \mathbf{BF})}$$

$$\mathbf{BK} := \sqrt{\mathbf{N}_2^2 + \mathbf{EF}^2} \quad \mathbf{BG} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{BK}}$$

$$\mathbf{GJ} := \frac{\mathbf{EF} \cdot \mathbf{BG}}{\mathbf{BK}} \quad \mathbf{R} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{GJ}}$$

R = 4.443864

$$\mathbf{Boolean} := \frac{\mathbf{EF}^2 + \sqrt{\mathbf{EF}^4}}{2\sqrt{\mathbf{EF}^4}}$$

Definitions.

Boolean = 1

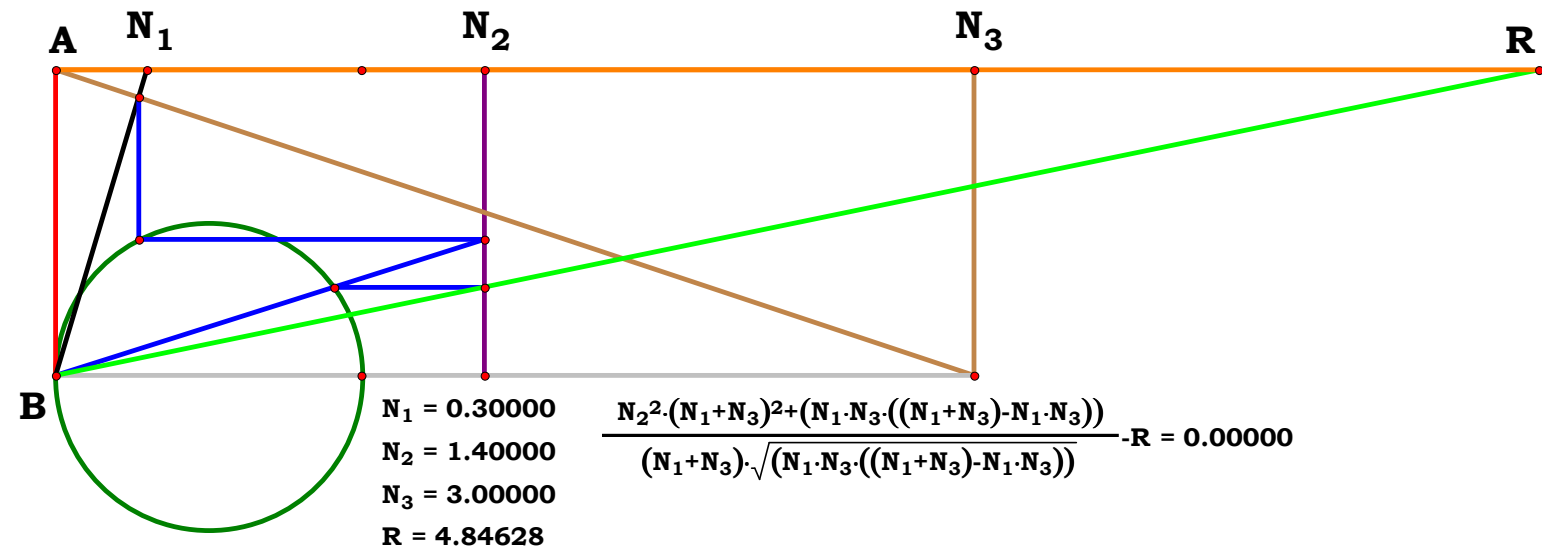
$$R - \frac{N_2^2 \cdot (N_1 + N_3)^2 + N_1 \cdot N_3 \cdot (N_1 + N_3 - N_1 \cdot N_3)}{(N_1 + N_3) \cdot \sqrt{N_1 \cdot N_3 \cdot (N_1 + N_3 - N_1 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

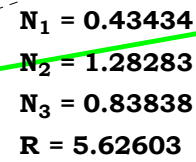
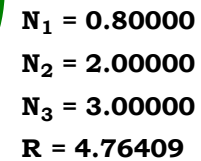
$$R - \frac{\mathbf{N}_u \cdot [\mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B} + \mathbf{C}) \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C}) + \mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{C})]}{\mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_u)}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\mathbf{X}^2 \cdot \mathbf{Y}^2 \cdot \mathbf{q}^2 - \mathbf{X}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{p}^2 + \mathbf{X}^2 \cdot \mathbf{Z} \cdot \mathbf{p}^2 \cdot \mathbf{q} + 2 \cdot \mathbf{X} \cdot \mathbf{Y}^2 \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q} + \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{o} \cdot \mathbf{p}^2 + \mathbf{Y}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{o}^2}{\mathbf{p}^2 \cdot (\mathbf{X} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{o}) \cdot \sqrt{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{o})}} = 0$$

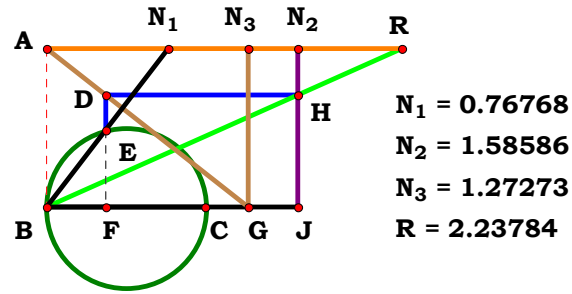


30BT6R6


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{Boolean} := \frac{\mathbf{EF}^2 + \sqrt{\mathbf{EF}^4}}{2\sqrt{\mathbf{EF}^4}}$$


$$\frac{N_2 \cdot (N_1 \cdot N_2 + N_2 \cdot N_3 + N_3 \cdot \sqrt{N_1 \cdot N_3 \cdot ((N_1 + N_3) - N_1 \cdot N_3)})}{N_3 \cdot \sqrt{N_1 \cdot N_3 \cdot ((N_1 + N_3) - N_1 \cdot N_3)}} - R = 0.00000$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot [\mathbf{Z} \cdot \mathbf{p} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{o})} + \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{q}^2 + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}]}{\mathbf{Z} \cdot \mathbf{p}^2 \cdot \sqrt{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{o})}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .76768$ $N_2 := 1.58586$ $N_3 := 1.27273$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BE := \frac{N_1 \cdot AB}{BN_1}$$

$$BF := \frac{N_1 \cdot BE}{BN_1} \quad DF := \frac{AB \cdot (N_3 - BF)}{N_3}$$

$$R := \frac{N_2 \cdot AB}{DF} \quad R = 2.237849$$

Definitions.

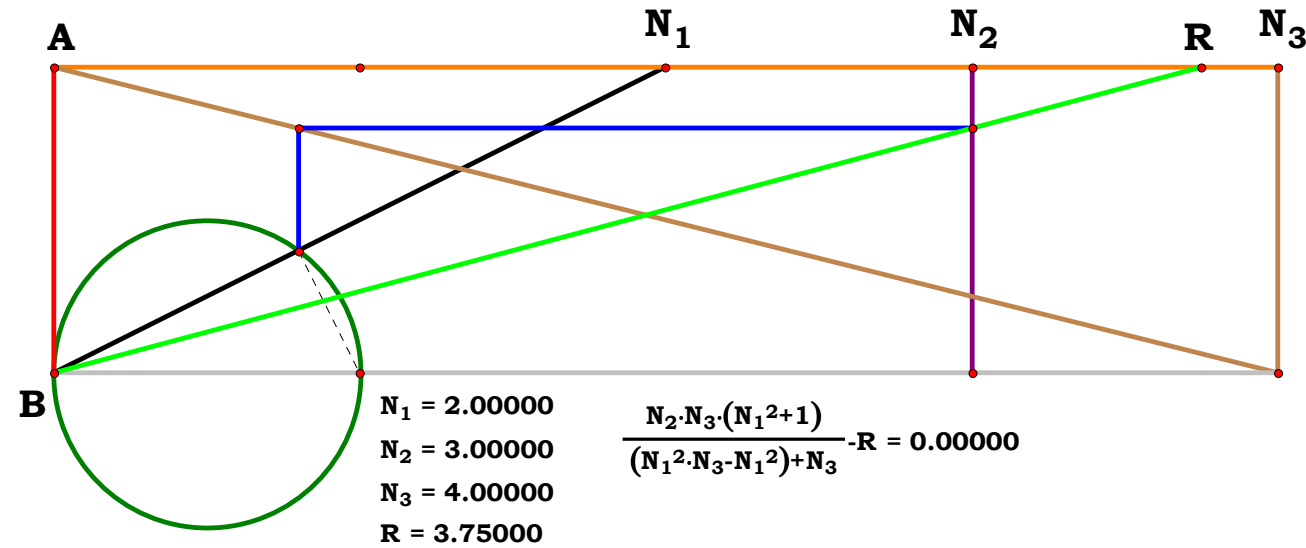
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_3 - N_1^2 + N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 + N_u^2 - C \cdot N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + o^2)}{X^2 \cdot Z \cdot p + Z \cdot o^2 \cdot p - X^2 \cdot p \cdot q} = 0$$





30BT7R0

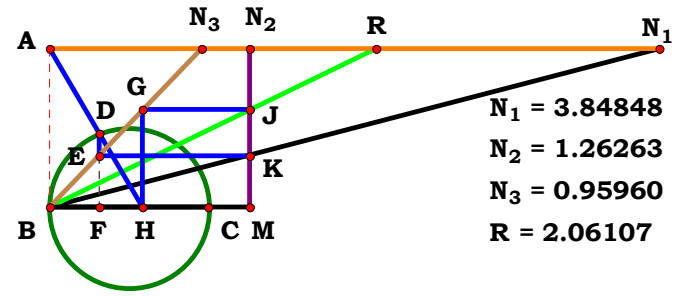
Descriptions.

$$\begin{aligned} \text{KM} &:= \frac{N_2}{N_1} & \text{BF} &:= N_3 \cdot \text{KM} \\ \text{DF} &:= \sqrt{\text{BF} \cdot (\text{AB} - \text{BF})} & \text{BH} &:= \frac{\text{BF} \cdot \text{AB}}{\text{AB} - \text{DF}} \\ \text{GH} &:= \frac{\text{AB} \cdot \text{BH}}{N_3} & \text{R} &:= \frac{N_2 \cdot \text{AB}}{\text{GH}} \\ \text{R} &= 2.06106 \\ \text{Boolean} &:= \frac{\text{DF}^2 + \sqrt{\text{DF}^4}}{2\sqrt{\text{DF}^4}} \end{aligned}$$

Definitions.

Boolean = 1

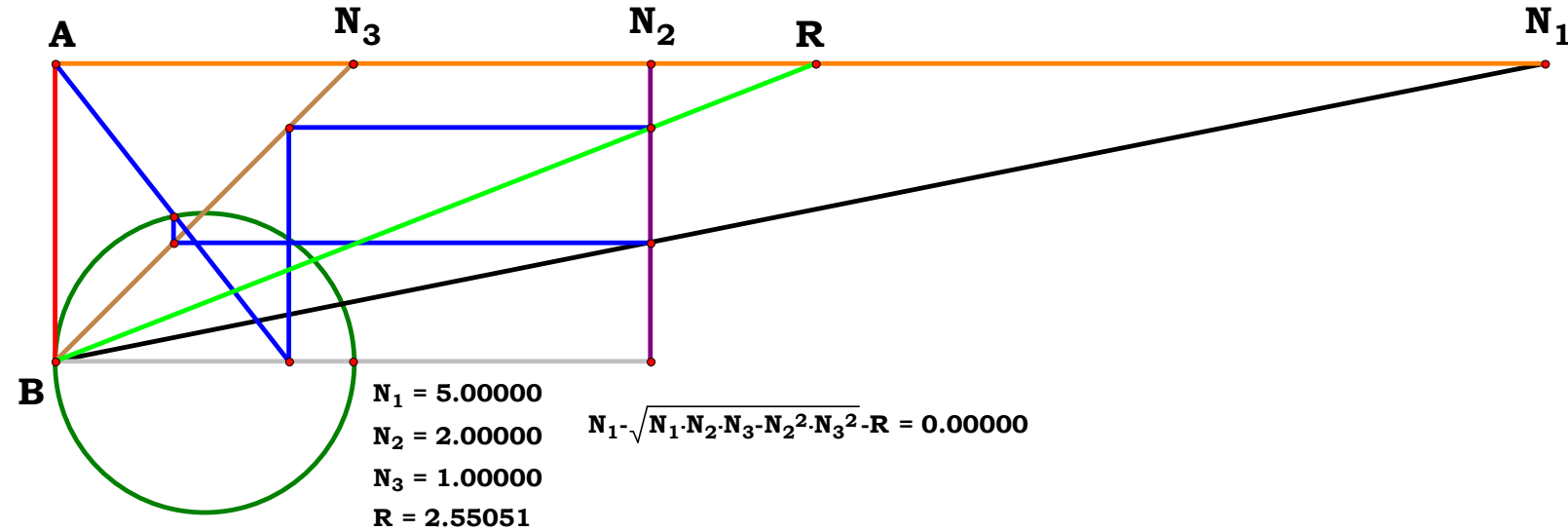
$$\begin{aligned} \text{R} - \left(N_1 - \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2} \right) &= 0 \\ N_1 - \frac{N_u}{A} = 0 & \quad N_2 - \frac{N_u}{B} = 0 & \quad N_3 - \frac{N_u}{C} = 0 \\ \text{R} - \frac{N_u \cdot \left[B \cdot C - \sqrt{N_u \cdot A \cdot (B \cdot C - A \cdot N_u)} \right]}{A \cdot B \cdot C} &= 0 \\ N_1 - \frac{X}{o} = 0 & \quad N_2 - \frac{Y}{p} = 0 & \quad N_3 - \frac{Z}{q} = 0 \\ \text{R} - \frac{X \cdot p \cdot q - \sqrt{o \cdot \sqrt{Y \cdot Z \cdot (X \cdot p \cdot q - Y \cdot Z \cdot o)}}}{o \cdot p \cdot q} &= 0 \end{aligned}$$



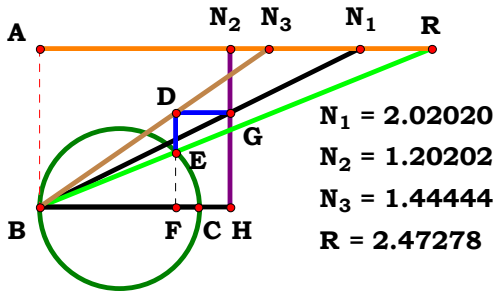
$N_1 = 3.84848$
 $N_2 = 1.26263$
 $N_3 = 0.95960$
 $R = 2.06107$

Unit. $AB := 1$ Given. $N_1 := 3.84848$ $N_2 := 1.26263$ $N_3 := .95960$

$$\begin{aligned} N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & C &:= \frac{N_u}{N_3} \\ X &:= 20 & Y &:= 19 & Z &:= 18 & o &:= \frac{X}{N_1} & p &:= \frac{Y}{N_2} & q &:= \frac{Z}{N_3} \end{aligned}$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $R = 2.55051$
 $N_1 - \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2} \cdot R = 0.00000$



Unit. $AB := 1$ Given. $N_1 := 2.02020$ $N_2 := 1.20202$ $N_3 := 1.44444$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$GH := \frac{N_2}{N_1} \quad BF := N_3 \cdot GH$$

$$EF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{EF}$$

$$R = 2.472757$$

Definitions.

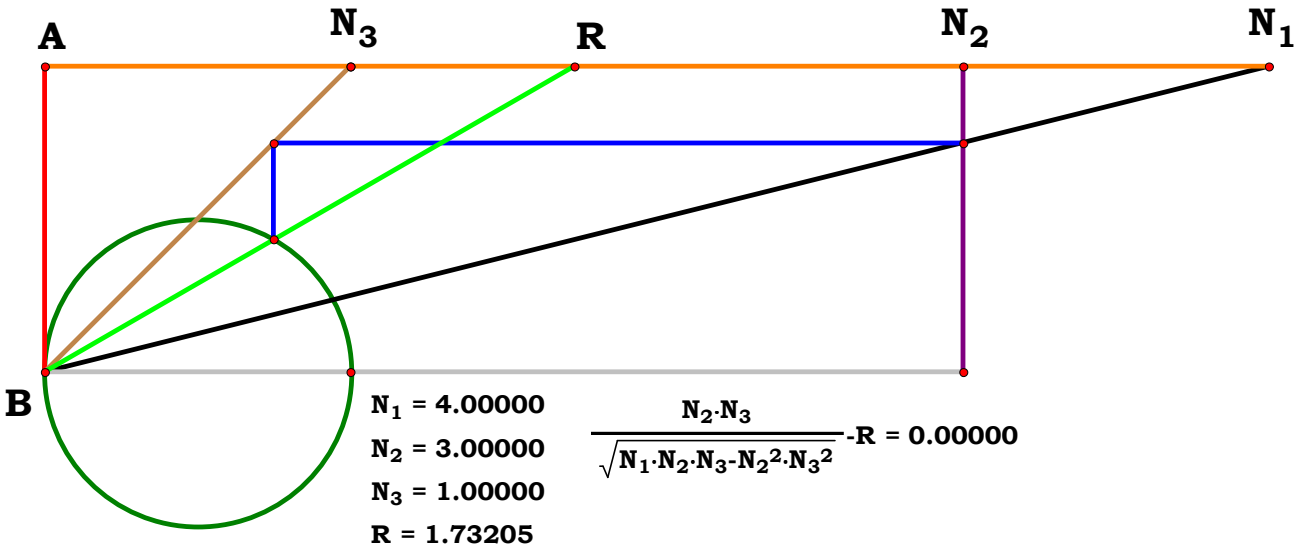
$$R - \frac{N_2 \cdot N_3}{\sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}} = 0$$

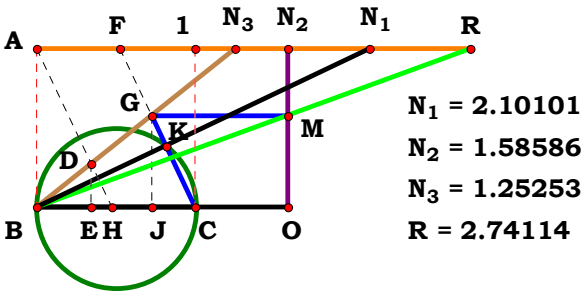
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A \cdot N_u}}{\sqrt{N_u \cdot (B \cdot C - A \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot \sqrt{o}}{\sqrt{-Y \cdot Z \cdot (Y \cdot Z \cdot o - X \cdot p \cdot q)}} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.10101$ $N_2 := 1.58586$ $N_3 := 1.25253$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$F1 := \frac{AB^2}{N_1} \quad BH := F1$$

$$BE := \frac{N_3 \cdot BH}{N_3 + BH} \quad BJ := \frac{BE \cdot AB}{BH}$$

$$GJ := \frac{AB \cdot BJ}{N_3} \quad R := \frac{N_2 \cdot AB}{GJ}$$

$$R = 2.741146$$

Definitions.

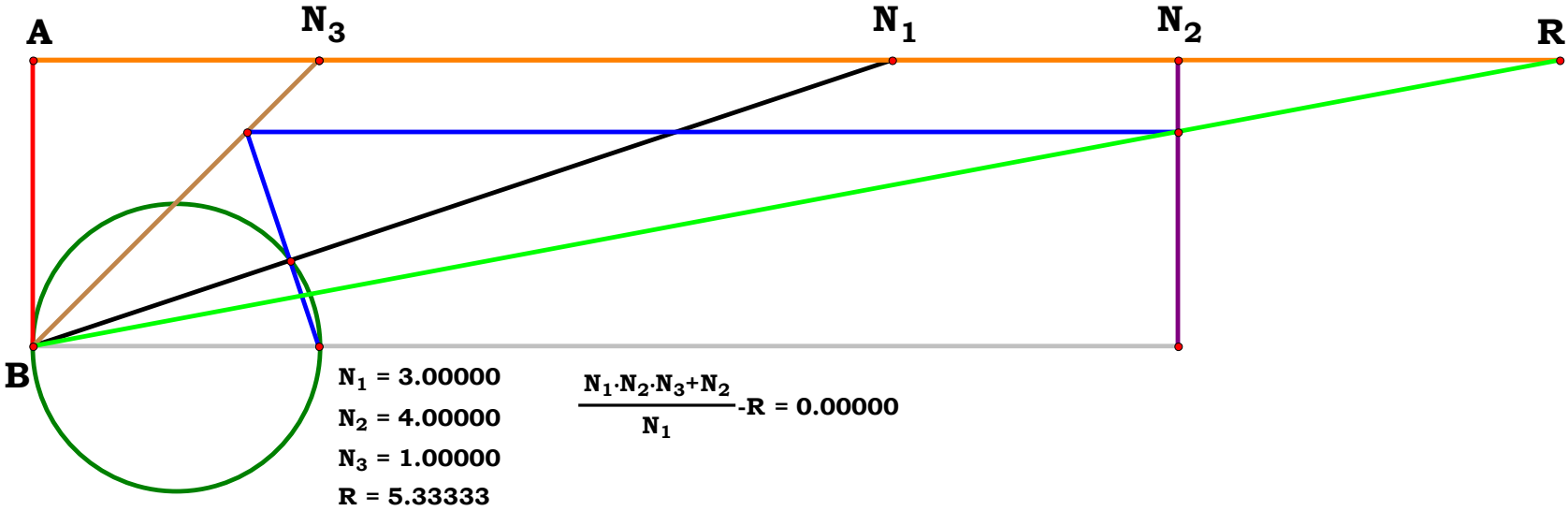
$$R - \frac{N_1 \cdot N_2 \cdot N_3 + N_2}{N_1} = 0$$

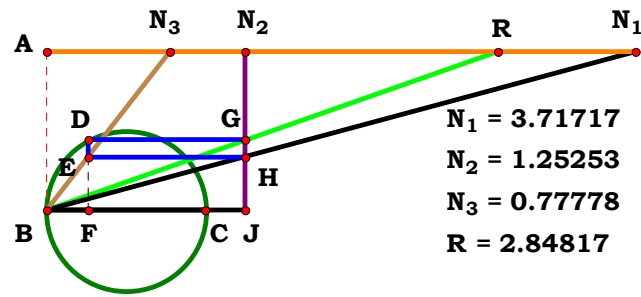
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 + A \cdot C}{B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot o \cdot q + X \cdot Y \cdot Z}{X \cdot p \cdot q} = 0$$





$N_1 = 3.71717$
 $N_2 = 1.25253$
 $N_3 = 0.77778$
 $R = 2.84817$

Unit. $AB := 1$ Given. $N_1 := 3.71717$ $N_2 := 1.25253$ $N_3 := .77778$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$HJ := \frac{N_2}{N_1} \quad BF := N_3 \cdot HJ$$

$$DF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{N_2 \cdot AB}{DF}$$

$$R = 2.848177$$

$$\text{Boolean} := \frac{DF^2 + \sqrt{DF^4}}{2\sqrt{DF^4}}$$

Definitions.

$$\text{Boolean} = 1$$

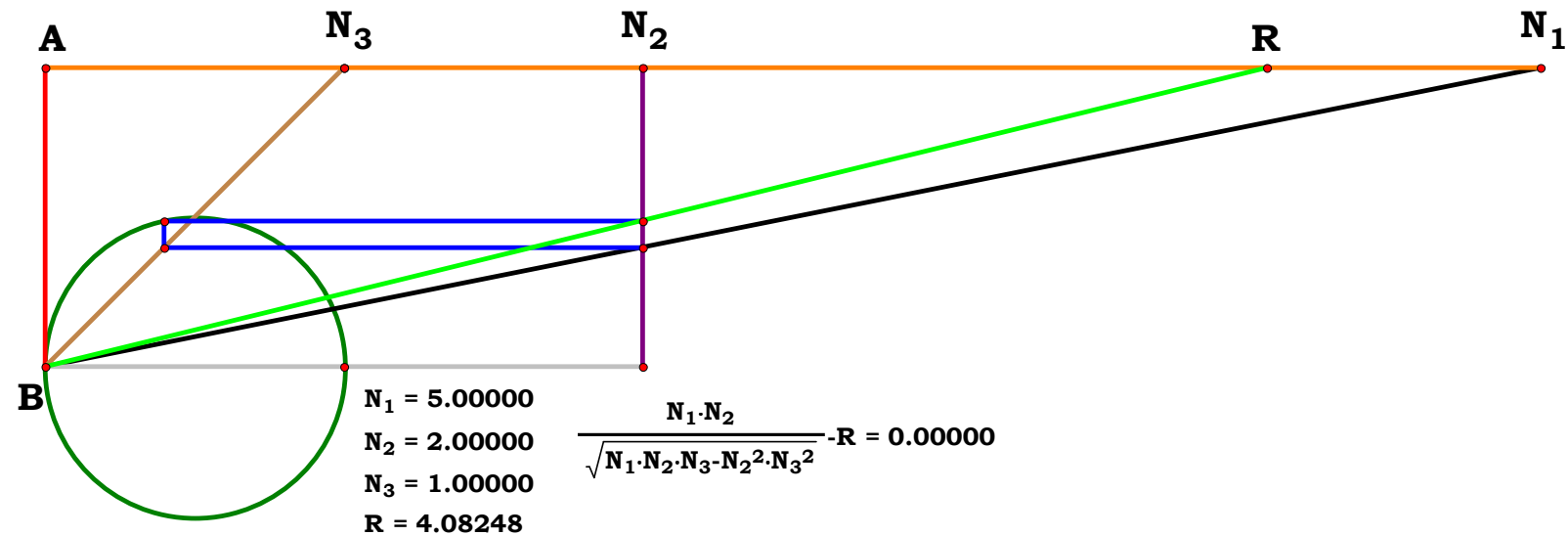
$$R - \frac{N_1 \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot N_u}{\sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}} = 0$$

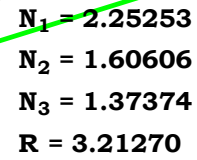
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Y \cdot q}{\sqrt{o \cdot \sqrt{-Y \cdot Z \cdot (Y \cdot Z \cdot o - X \cdot p \cdot q)}}} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $R = 4.08248$

$$\frac{N_1 \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$
$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{AB}}{\mathbf{BN}_1}$$

$$\mathbf{DF} := \sqrt{\mathbf{BF} \cdot (\mathbf{AB} - \mathbf{BF})} \quad \mathbf{R} := \frac{\mathbf{N}_2 \cdot \mathbf{AB}}{\mathbf{DF}}$$

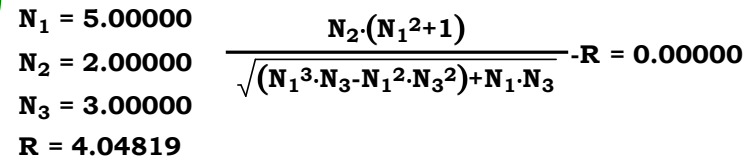
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot (\mathbf{N}_1^2 + \mathbf{1})}{\sqrt{\mathbf{N}_1^3 \cdot \mathbf{N}_3 - \mathbf{N}_1^2 \cdot \mathbf{N}_3^2 + \mathbf{N}_1 \cdot \mathbf{N}_3}} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{B} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{C} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u^2 + \mathbf{C} \cdot \mathbf{N}_u^2)}} = \mathbf{0}$$

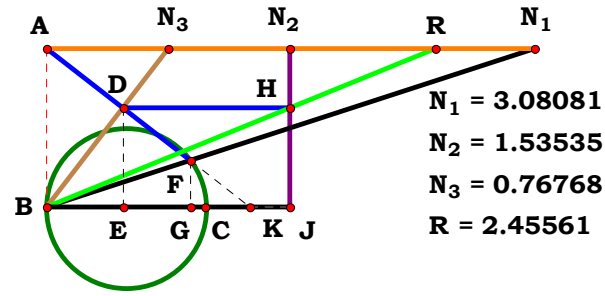
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{q} \cdot (\mathbf{X}^2 + \mathbf{o}^2)}{\sqrt{\mathbf{o} \cdot \mathbf{p}} \cdot \sqrt{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{q} \cdot \mathbf{X}^2 - \mathbf{Z} \cdot \mathbf{X} \cdot \mathbf{o} + \mathbf{q} \cdot \mathbf{o}^2)}} = 0$$





30BT7R5



$N_1 = 3.08081$
 $N_2 = 1.53535$
 $N_3 = 0.76768$
 $R = 2.45561$

Unit. $AB := 1$ Given. $N_1 := 3.08081$ $N_2 := 1.53535$ $N_3 := .76768$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BF := \frac{N_1 \cdot AB}{BN_1}$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BF}{BN_1}$$

$$BK := \frac{BG \cdot AB}{AB - FG} \quad BE := \frac{N_3 \cdot BK}{N_3 + BK}$$

$$DE := \frac{AB \cdot BE}{N_3} \quad R := \frac{N_2 \cdot AB}{DE}$$

$R = 2.455609$

Definitions.

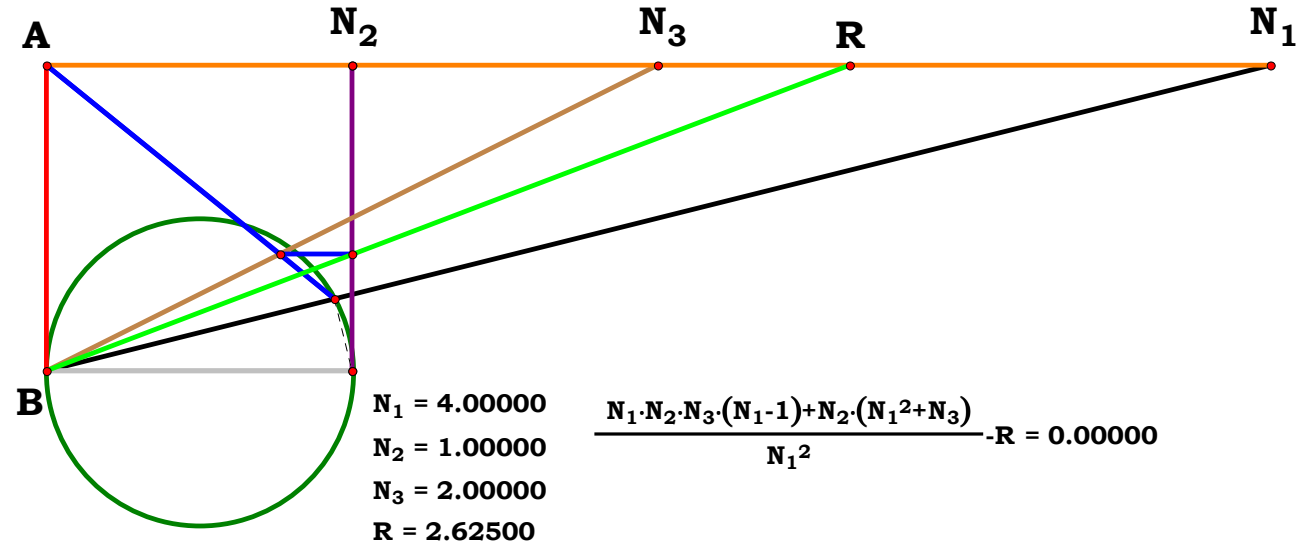
$$R - \frac{N_1 \cdot N_2 \cdot N_3 \cdot (N_1 - 1) + N_2 \cdot (N_1^2 + N_3)}{N_1^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A^2 - A \cdot N_u + N_u^2 + C \cdot N_u}{B \cdot C} = 0$$

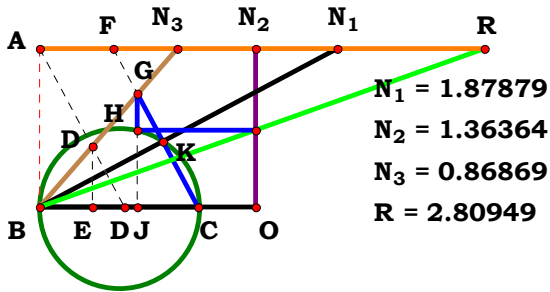
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z + Y \cdot Z \cdot o^2 + X^2 \cdot Y \cdot q - X \cdot Y \cdot Z \cdot o}{X^2 \cdot p \cdot q} = 0$$



$N_1 = 4.00000$
 $N_2 = 1.00000$
 $N_3 = 2.00000$
 $R = 2.62500$

$$\frac{N_1 \cdot N_2 \cdot N_3 \cdot (N_1 - 1) + N_2 \cdot (N_1^2 + N_3)}{N_1^2} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.87879$ $N_2 := 1.36364$ $N_3 := .86869$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BD := \frac{AB^2}{N_1} \quad BE := \frac{N_3 \cdot BD}{N_3 + BD}$$

$$BJ := \frac{BE \cdot AB}{BD} \quad HJ := \sqrt{BJ \cdot (AB - BJ)}$$

$$R := \frac{N_2 \cdot AB}{HJ} \quad R = 2.809495$$

Definitions.

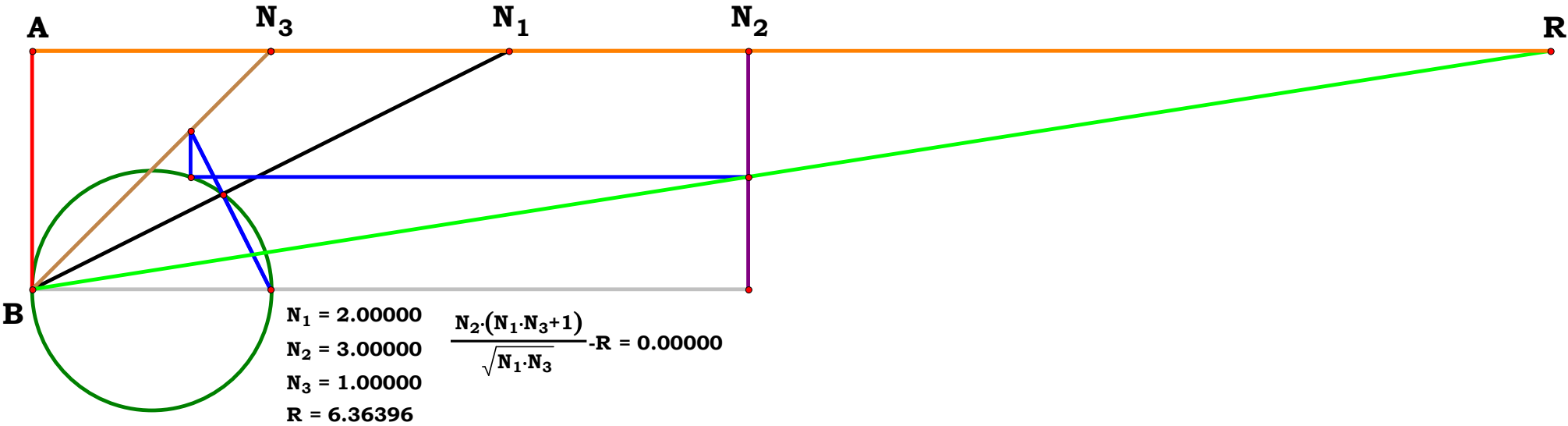
$$R - \frac{N_2 \cdot (N_1 \cdot N_3 + 1)}{\sqrt{N_1 \cdot N_3}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C)}{A \cdot B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot (X \cdot Z + o \cdot q) \cdot \sqrt{o \cdot q}}{o \cdot p \cdot q \cdot \sqrt{X \cdot Z}} = 0$$





30BT7R7

Descriptions.

$$JK := \frac{N_2}{N_1} \quad BH := N_3 \cdot JK$$

$$GH := \sqrt{BH \cdot (AB - BH)} \quad R := N_3 \cdot GH$$

$$R = 0.387228$$

$$\text{Boolean} := \frac{GH^2 + \sqrt{GH^4}}{2\sqrt{GH^4}}$$

Definitions.

$$\text{Boolean} = 1$$

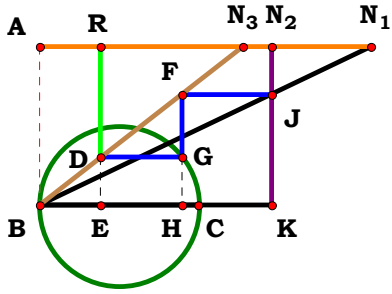
$$R - \frac{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}}{N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}}{B \cdot C^2} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

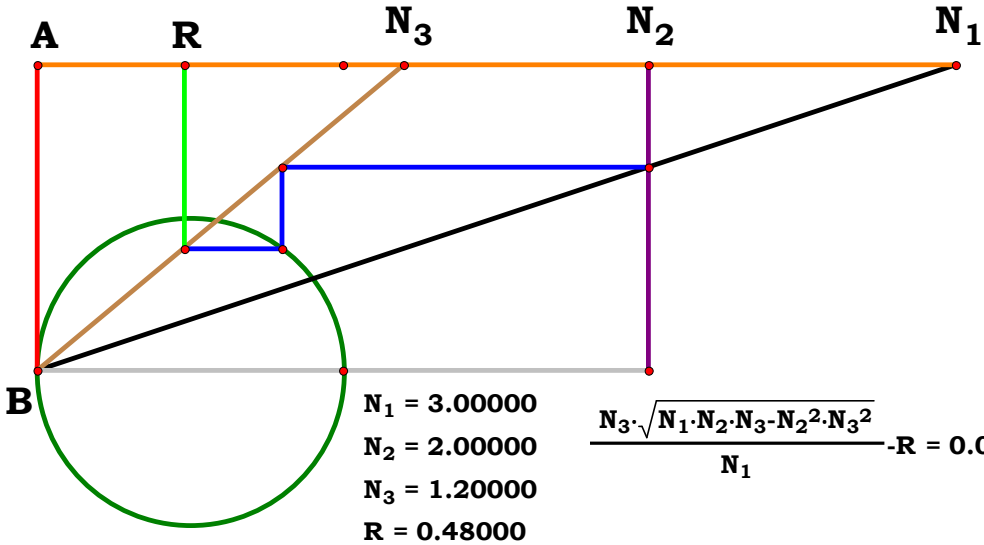
$$R - \frac{Z \cdot \sqrt{o} \cdot \sqrt{-Y \cdot Z \cdot (Y \cdot Z \cdot o - X \cdot p \cdot q)}}{X \cdot p \cdot q^2} = 0$$



$$\begin{aligned} N_1 &= 2.09091 \\ N_2 &= 1.46465 \\ N_3 &= 1.28283 \\ R &= 0.38723 \end{aligned}$$

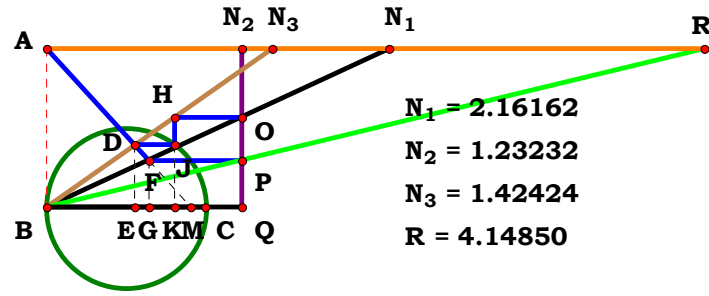
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.09091 \quad N_2 := 1.46465 \quad N_3 := 1.28283$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 1.20000 \\ R &= 0.48000 \end{aligned}$$

$$\frac{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}}{N_1} \cdot R = 0.00000$$



$$\begin{aligned} N_1 &= 2.16162 \\ N_2 &= 1.23232 \\ N_3 &= 1.42424 \\ R &= 4.14850 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.16162 \quad N_2 := 1.23232 \quad N_3 := 1.42424$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$OQ := \frac{N_2}{N_1} \quad BK := N_3 \cdot OQ$$

$$JK := \sqrt{BK \cdot (AB - BK)} \quad BE := N_3 \cdot JK$$

$$BM := \frac{BE \cdot AB}{AB - JK} \quad BG := \frac{N_1 \cdot BM}{N_1 + BM}$$

$$FG := \frac{AB \cdot BG}{N_1} \quad R := \frac{N_2 \cdot AB}{FG}$$

$$R = 4.148451$$

Definitions.

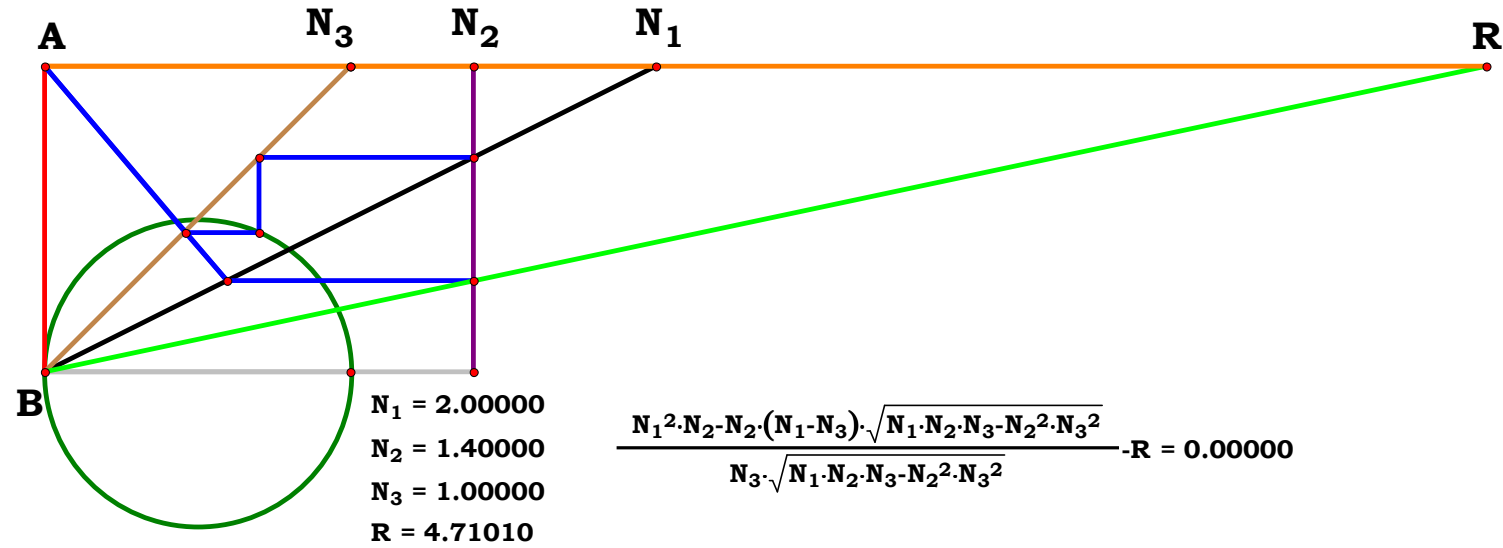
$$R - \frac{N_1^2 \cdot N_2 - N_2 \cdot (N_1 - N_3) \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}}{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} \cdot (A - C) + B \cdot C^2 \right]}{A \cdot B \cdot \sqrt{A \cdot (B \cdot C \cdot N_u - A \cdot N_u^2)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot \left[X^2 \cdot p \cdot q^2 - \sqrt{X \cdot Y \cdot Z \cdot p \cdot q} - Y^2 \cdot Z^2 \cdot o \cdot \sqrt{o} \cdot (X \cdot q - Z \cdot o) \right]}{3 \cdot Z \cdot o^2 \cdot p \cdot \sqrt{X \cdot Y \cdot Z \cdot p \cdot q} - Y^2 \cdot Z^2 \cdot o} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 1.40000 \\ N_3 &= 1.00000 \\ R &= 4.71010 \end{aligned}$$

$$\frac{N_1^2 \cdot N_2 - N_2 \cdot (N_1 - N_3) \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}}{N_3 \cdot \sqrt{N_1 \cdot N_2 \cdot N_3 - N_2^2 \cdot N_3^2}} - R = 0.00000$$



3OBT8R0

Descriptions.

$$MO := \frac{N_2}{N_1} \quad BP := \frac{N_2 \cdot AB}{AB - MO}$$

$$BJ := \frac{N_3 \cdot BP}{N_3 + BP} \quad JK := N_4 - BJ$$

$$HJ := \frac{AB \cdot JK}{N_4} \quad EF := \sqrt{\left(\frac{AB}{2}\right)^2 - HJ^2}$$

$$BE := \frac{AB}{2} - EF \quad R := \frac{BE \cdot AB}{HJ}$$

$$R = 0.317401$$

$$\text{Boolean} := \frac{EF^2 + \sqrt{EF^4}}{2\sqrt{EF^4}}$$

Definitions.

$$\text{Boolean} = 1$$

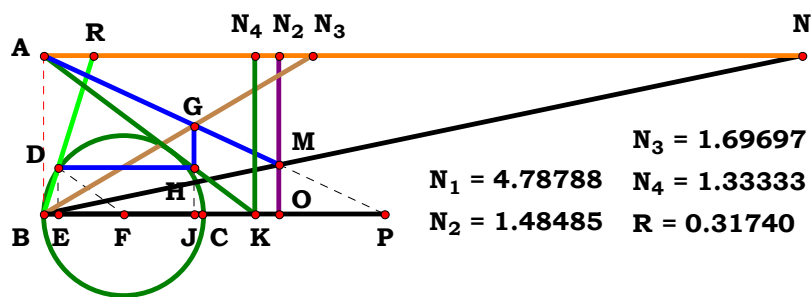
$$R - \frac{\sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) - 4 \cdot N_1^2 \cdot N_2^2 \cdot N_3^2 - 3 \cdot N_4^2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2 - N_1 \cdot N_2 \cdot N_4 - N_1 \cdot N_3 \cdot N_4 + N_2 \cdot N_3 \cdot N_4}}{2 \cdot (N_1 \cdot N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_4 - N_1 \cdot N_3 \cdot N_4 + N_2 \cdot N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A - B - C + \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}}{2 \cdot (A - B - C + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

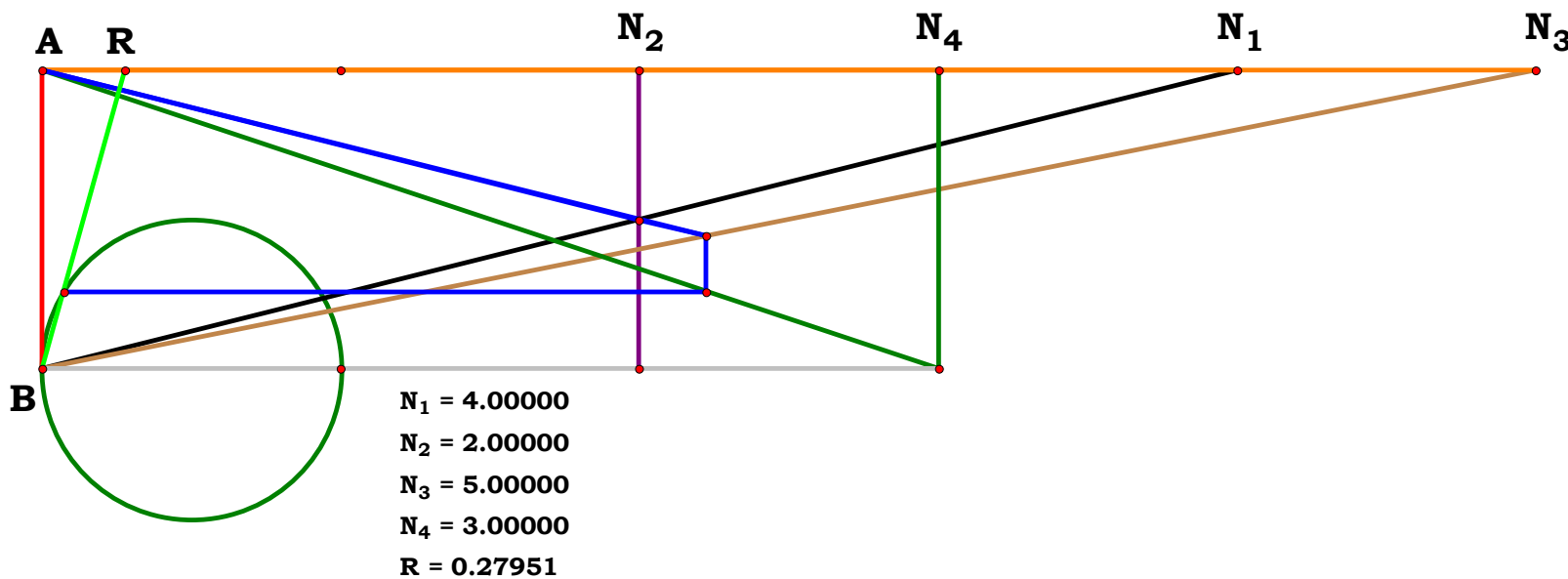
$$R - \frac{\sqrt{(W \cdot X \cdot Z \cdot o - 2 \cdot W \cdot X \cdot Y \cdot p + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m) \cdot (2 \cdot W \cdot X \cdot Y \cdot p - 3 \cdot W \cdot X \cdot Z \cdot o - 3 \cdot W \cdot Y \cdot Z \cdot n + 3 \cdot X \cdot Y \cdot Z \cdot m) - W \cdot X \cdot Z \cdot o - W \cdot Y \cdot Z \cdot n + X \cdot Y \cdot Z \cdot m}}{2 \cdot (W \cdot X \cdot Y \cdot p - W \cdot X \cdot Z \cdot o - W \cdot Y \cdot Z \cdot n + X \cdot Y \cdot Z \cdot m)} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 4.78788 \quad N_2 := 1.48485 \quad N_3 := 1.69697 \quad N_4 := 1.33333$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

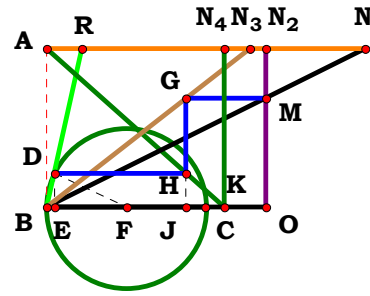


$$N_1 = 4.00000 \\ N_2 = 2.00000 \\ N_3 = 5.00000 \\ N_4 = 3.00000 \\ R = 0.27951$$

$$\frac{((N_2 \cdot N_3 \cdot N_4) - (N_1 \cdot N_2 \cdot N_4) - (N_1 \cdot N_3 \cdot N_4)) + \sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3) - (2 \cdot N_1 \cdot N_2 \cdot N_3)^2 - 3 \cdot N_4^2 \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2}}{(2 \cdot ((N_1 \cdot N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_4 - N_1 \cdot N_3 \cdot N_4) + N_2 \cdot N_3 \cdot N_4))} - R = 0.00000$$



30BT8R1



$N_1 = 2.01010$
 $N_2 = 1.38384$
 $N_3 = 1.28283$
 $N_4 = 1.12121$
 $R = 0.22287$

Unit. $AB := 1$ Given. $N_1 := 2.01010$ $N_2 := 1.38384$ $N_3 := 1.28283$ $N_4 := 1.12121$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$MO := \frac{N_2}{N_1} \quad BJ := N_3 \cdot MO$$

$$CJ := N_4 - BJ \quad HJ := \frac{AB \cdot CJ}{N_4}$$

$$EF := \sqrt{\left(\frac{AB}{2}\right)^2 - HJ^2} \quad BE := \frac{AB}{2} - EF$$

$$R := \frac{BE \cdot AB}{HJ} \quad R = 0.222865$$

$$\text{Boolean} := \frac{EF^2 + \sqrt{EF^4}}{2\sqrt{EF^4}}$$

Definitions.

Boolean = 1

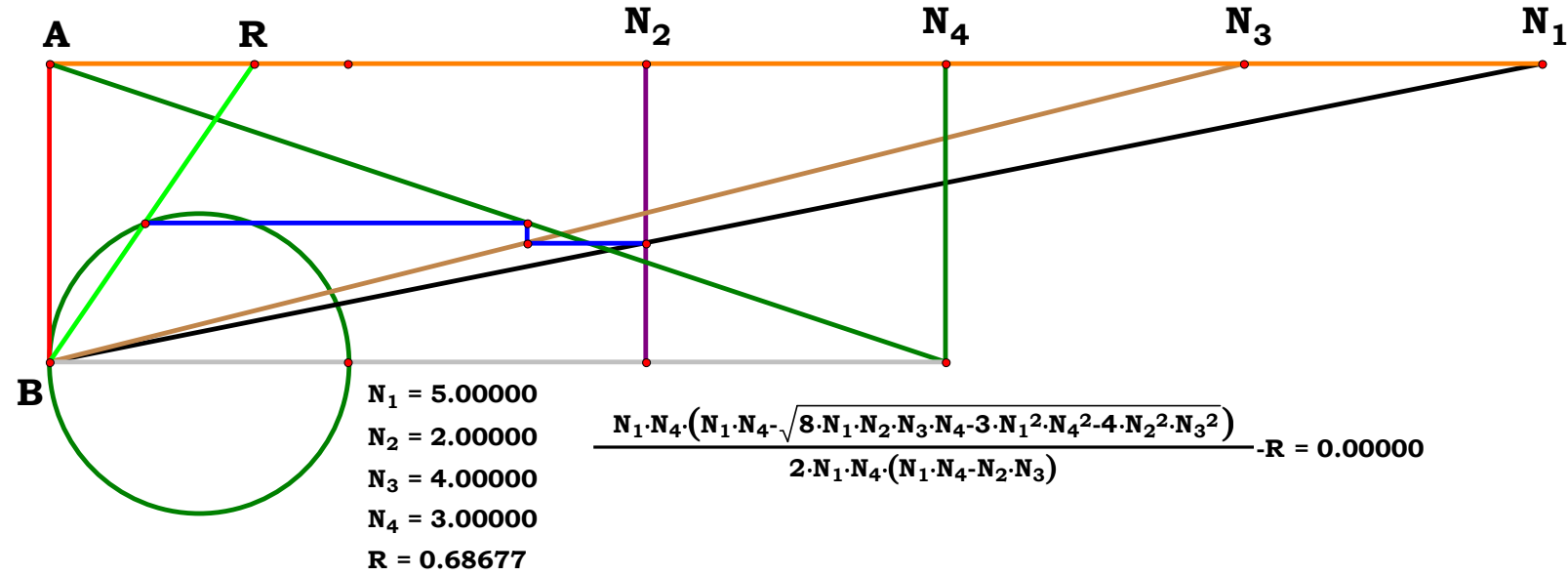
$$R - \frac{N_1 \cdot N_4 \cdot \left(N_1 \cdot N_4 - \sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 - 3 \cdot N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3^2} \right)}{2 \cdot (N_1 \cdot N_4) \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} = 0$$

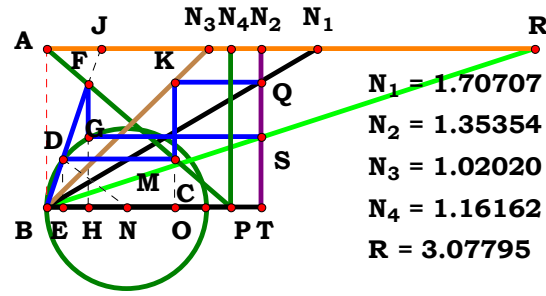
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C) - B \cdot C}}{2 \cdot (A \cdot D - B \cdot C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Z \cdot n \cdot o - \sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p) \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o)}}{2 \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.70707$ $N_2 := 1.35354$ $N_3 := 1.02020$ $N_4 := 1.16162$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$QT := \frac{N_2}{N_1} \quad BO := N_3 \cdot QT \quad OP := N_4 - BO$$

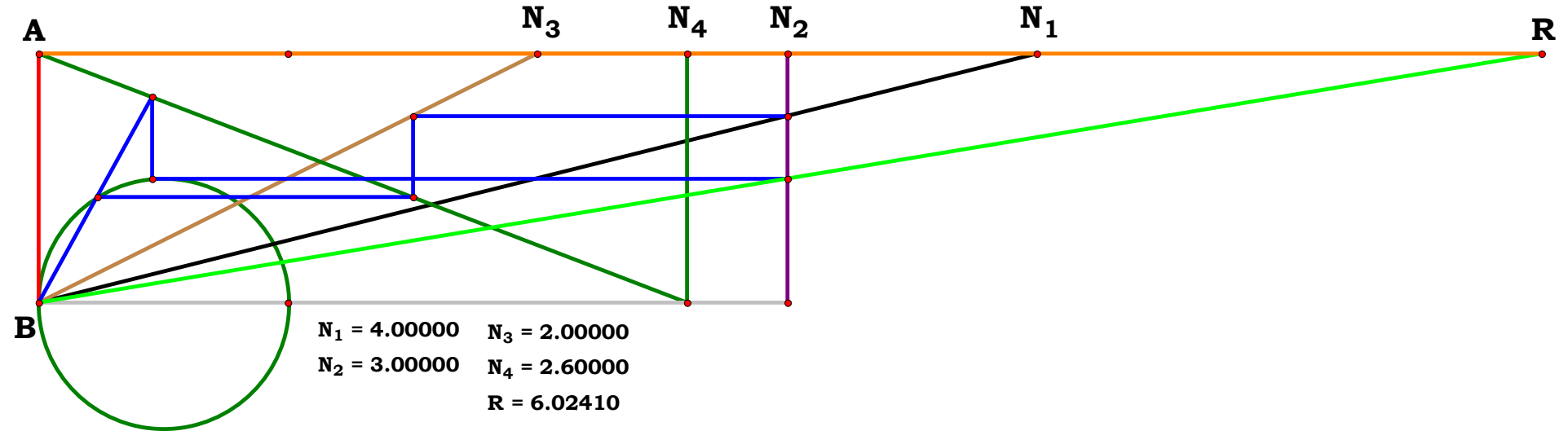
$$MO := \frac{AB \cdot OP}{N_4} \quad EN := \sqrt{\left(\frac{AB}{2}\right)^2 - MO^2}$$

$$BE := \frac{AB}{2} - EN \quad AJ := \frac{BE \cdot AB}{MO}$$

$$BH := \frac{AJ \cdot N_4}{AJ + N_4} \quad GH := \sqrt{BH \cdot (AB - BH)}$$

$$R := \frac{N_2 \cdot AB}{GH} \quad R = 3.077953$$

$$\text{Boolean} := \frac{EN^2 + \sqrt{EN^4}}{2\sqrt{EN^4}}$$



$N_1 = 4.00000$ $N_3 = 2.00000$
 $N_2 = 3.00000$ $N_4 = 2.60000$
 $R = 6.02410$

$$\frac{((N_1 \cdot N_2 \cdot N_4) \cdot (((2 \cdot N_1 \cdot N_4^2) - \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}) + (N_1 \cdot N_4)) - (2 \cdot N_2 \cdot N_3 \cdot N_4)))}{\sqrt{(((N_1^4 \cdot N_4^6 + N_1^3 \cdot N_4^5 \cdot (N_1 - 2 \cdot N_2 \cdot N_3)) - (2 \cdot N_1^2 \cdot N_4^4 \cdot (N_1 \cdot N_2 \cdot N_3))) \cdot \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}) + (N_1^2 \cdot N_4^3 \cdot (N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4))) - (N_1^2 \cdot N_4^4 \cdot (N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)))}} - R = 0.00000$$

Definitions.

$$\text{Boolean} = 1$$

$$R - \frac{N_1 \cdot N_2 \cdot N_4 \cdot \left[2 \cdot N_1 \cdot N_4^2 - \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)} + N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3 \cdot N_4 \right]}{\sqrt{2 \cdot N_1^2 \cdot N_4^3 \cdot \left(2 \cdot N_1^2 \cdot N_4^3 - 2 \cdot N_2^2 \cdot N_3^2 - N_1^2 \cdot N_4^2 - N_1 \cdot N_4 \cdot \sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 - 3 \cdot N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3^2} \dots \right.}}$$

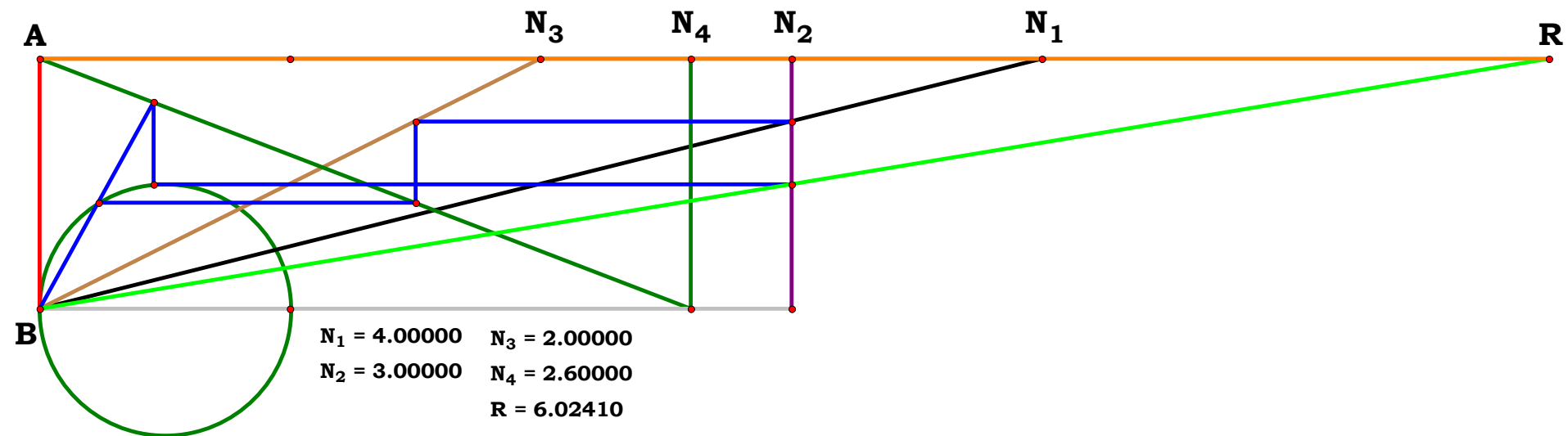
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{2 \cdot N_u^2} \cdot \left[B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} - 2 \cdot N_u \cdot (A \cdot D - B \cdot C) \right]}{2 \cdot B \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) - D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(2 \cdot A \cdot D - 3 \cdot B \cdot C) \cdot (B \cdot C - 2 \cdot A \cdot D)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] - 2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u)}} = 0$$



$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

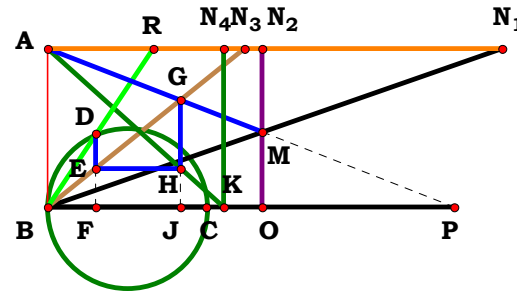
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$



$$((N_1 \cdot N_2 \cdot N_4) \cdot (((2 \cdot N_1 \cdot N_4^2) - \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}) + (N_1 \cdot N_4)) - (2 \cdot N_2 \cdot N_3 \cdot N_4)))$$

$$\frac{\sqrt{(((N_1^4 \cdot N_4^6 + N_1^3 \cdot N_4^5 \cdot (N_1 - 2 \cdot N_2 \cdot N_3)) - (2 \cdot N_1^2 \cdot N_4^4 \cdot (N_1 \cdot N_2 \cdot N_3)) - \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}) + (N_1^2 \cdot N_4^3 \cdot (N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4))) - (N_1^2 \cdot N_4^4 \cdot (N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)))}}{-R} = 0.00000$$

$$R - \frac{\sqrt{2 \cdot W \cdot X \cdot Z} \cdot (2 \cdot W \cdot Z^2 \cdot n \cdot o - p \cdot \sqrt{8 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot n \cdot o \cdot p - 3 \cdot W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot p^2 - 2 \cdot X \cdot Y \cdot Z \cdot m \cdot p + W \cdot Z \cdot n \cdot o \cdot p})}{2 \cdot n \cdot \sqrt{W^2 \cdot Z^3 \cdot (2 \cdot W^2 \cdot Z^3 \cdot n^2 \cdot o^2 - W^2 \cdot Z^2 \cdot n^2 \cdot o^2 \cdot p - 5 \cdot W \cdot X \cdot Y \cdot Z^2 \cdot m \cdot n \cdot o \cdot p + 4 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot n \cdot o \cdot p^2 + 2 \cdot X^2 \cdot Y^2 \cdot Z \cdot m^2 \cdot p^2 - 2 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot p^3) \dots + W^2 \cdot Z^3 \cdot (X \cdot Y \cdot Z \cdot m \cdot p - W \cdot Z \cdot n \cdot o \cdot p) \cdot \sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p) \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o)}}} = 0$$



$N_1 = 2.86869$
 $N_2 = 1.35354$
 $N_3 = 1.24242$
 $N_4 = 1.11111$
 $R = 0.66524$

Unit. $AB := 1$ Given. $N_1 := 2.86869$ $N_2 := 1.35354$ $N_3 := 1.24242$ $N_4 := 1.11111$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$MO := \frac{N_2}{N_1} \quad BP := \frac{N_2 \cdot AB}{AB - MO} \quad BJ := \frac{N_3 \cdot BP}{BP + N_3}$$

$$JK := N_4 - BJ \quad HJ := \frac{AB \cdot JK}{N_4} \quad BF := N_3 \cdot HJ$$

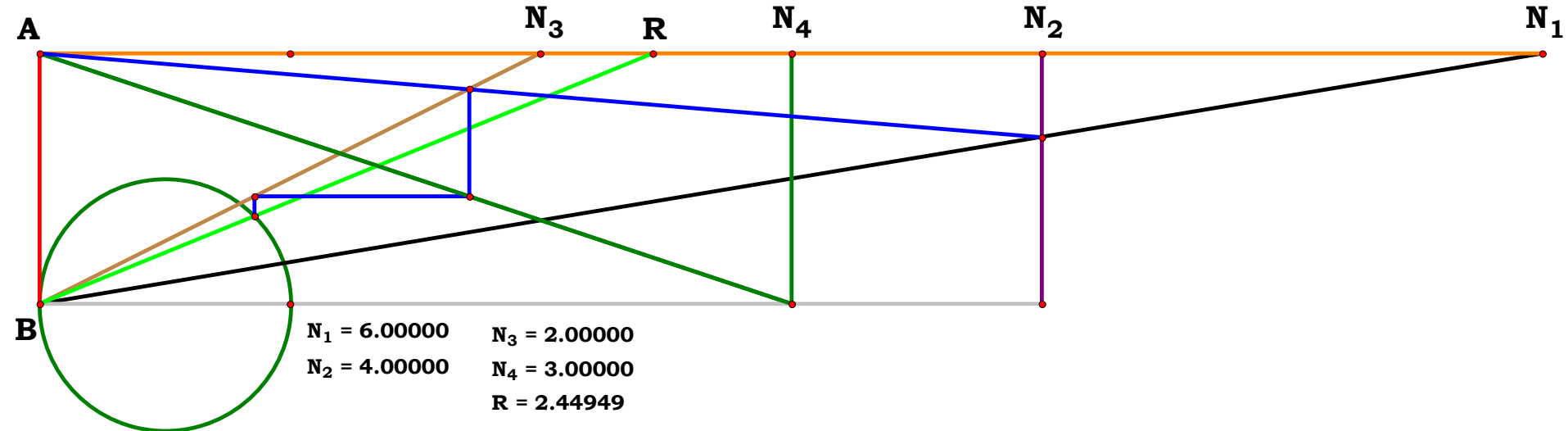
$$DF := \sqrt{BF \cdot (AB - BF)} \quad R := \frac{BF \cdot AB}{DF}$$

$$R = 0.665236$$

$$\text{Boolean} := \frac{DF^2 + \sqrt{DF^4}}{2\sqrt{DF^4}}$$

Definitions.

$$\text{Boolean} = 1$$



$N_1 = 6.00000$ $N_3 = 2.00000$
 $N_2 = 4.00000$ $N_4 = 3.00000$
 $R = 2.44949$

$$\frac{(N_3 \cdot N_4 \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3) \cdot (N_4 \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3) - (N_1 \cdot N_2 \cdot N_3)))}{(N_4 \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3) \cdot \sqrt{(N_1 \cdot N_2 \cdot N_3^2 \cdot N_4 \cdot (2 \cdot N_3 - 1)) \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3) - (N_3 \cdot N_4^2 \cdot (N_3 - 1)) \cdot ((N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2 - (N_1^2 \cdot N_2^2 \cdot N_3^4)})} - R = 0.00000$$

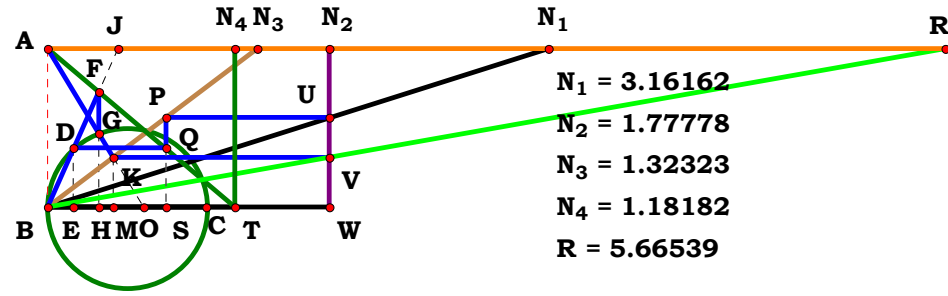
$$R - \frac{N_3 \cdot [N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)] \cdot [N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) - N_1 \cdot N_2 \cdot N_3]}{N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) \cdot \sqrt{N_4 \cdot N_1 \cdot N_2 \cdot N_3^2 \cdot (2 \cdot N_3 - 1) \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) - N_3 \cdot N_4^2 \cdot (N_3 - 1) \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2 - N_1^2 \cdot N_2^2 \cdot N_3^4}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (B - A + C - D)}{\sqrt{N_u \cdot (B - A + C - D) \cdot [N_u \cdot (A - B - C + D) + C \cdot (B - A + C)]}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot (W \cdot X \cdot Z \cdot o - W \cdot X \cdot Y \cdot p + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m)}{\sqrt{Y \cdot (W \cdot X \cdot Z \cdot o - W \cdot X \cdot Y \cdot p + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m) \cdot (W \cdot X \cdot Z \cdot o^2 + W \cdot X \cdot Y^2 \cdot p - W \cdot Y^2 \cdot Z \cdot n + X \cdot Y^2 \cdot Z \cdot m - W \cdot X \cdot Y \cdot Z \cdot o + W \cdot Y \cdot Z \cdot n \cdot o - X \cdot Y \cdot Z \cdot m \cdot o)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.16162$ $N_2 := 1.77778$ $N_3 := 1.32323$ $N_4 := 1.18182$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$BS := N_3 \cdot \frac{N_2}{N_1} \quad DE := \frac{AB \cdot (N_4 - BS)}{N_4} \quad BE := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - DE^2} \quad AJ := \frac{BE \cdot AB}{DE} \quad BH := \frac{AJ \cdot N_4}{AJ + N_4}$$

$$GH := \sqrt{BH \cdot (AB - BH)}$$

$$BO := \frac{BH \cdot AB}{AB - GH} \quad BM := \frac{N_3 \cdot BO}{N_3 + BO}$$

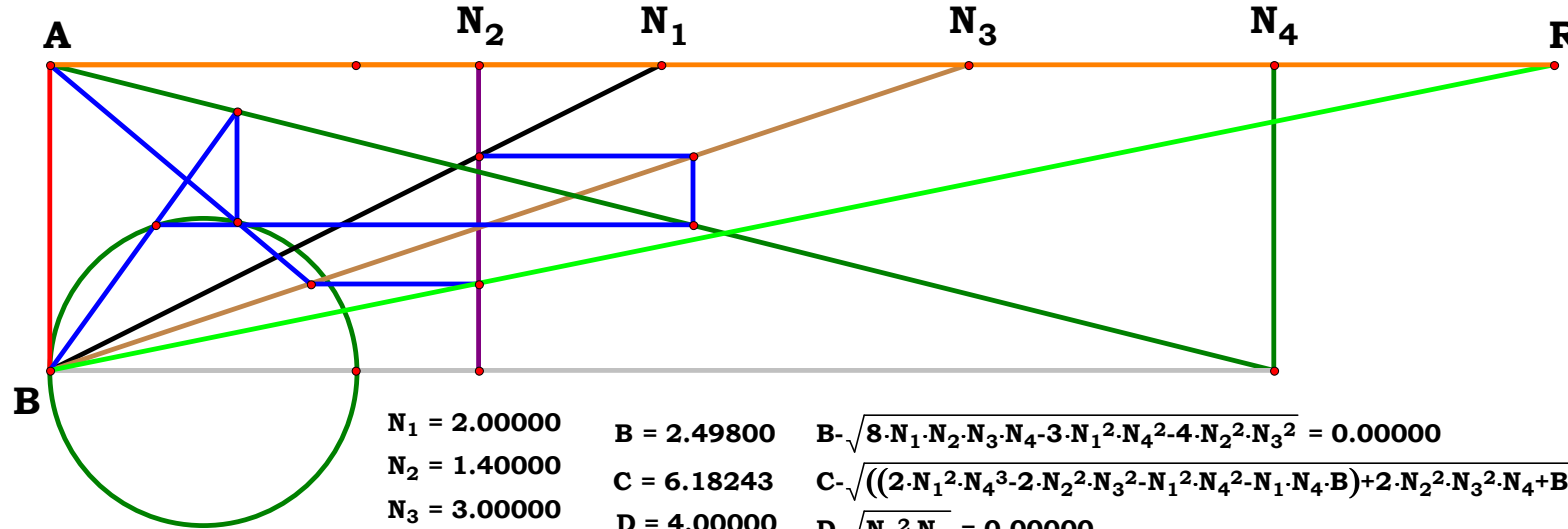
$$VW := \frac{AB \cdot BM}{N_3} \quad R := \frac{N_2 \cdot AB}{VW}$$

$$R = 5.665355$$

$$\text{Boolean} := \frac{GH^2 + \sqrt{GH^4}}{2\sqrt{GH^4}}$$

Definitions.

$$\text{Boolean} = 1$$



$$N_1 = 2.00000 \\ N_2 = 1.40000 \\ N_3 = 3.00000 \\ N_4 = 4.00000 \\ R = 4.91440$$

$$B = 2.49800 \\ C = 6.18243 \\ D = 4.00000$$

$$B - \sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 - 3 \cdot N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3^2} = 0.00000$$

$$C - \sqrt{((2 \cdot N_1^2 \cdot N_4^3 - 2 \cdot N_2^2 \cdot N_3^2 - N_1^2 \cdot N_4^2 - N_1 \cdot N_4 \cdot B) + 2 \cdot N_2^2 \cdot N_3^2 \cdot N_4 + B \cdot N_2 \cdot N_3 \cdot N_4 + 4 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4) - 5 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4^2} = 0.00000$$

$$D - \sqrt{N_1^2 \cdot N_4} = 0.00000$$

$$\frac{2 \cdot N_2 \cdot ((B \cdot D \cdot (N_3 + N_4) - D \cdot N_1 \cdot N_4 \cdot (N_3 + N_4) - 2 \cdot D \cdot N_3 \cdot N_4 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)) + \sqrt{2 \cdot C \cdot N_1 \cdot N_3 \cdot N_4})}{2 \cdot (B - N_1 \cdot N_4) \cdot D \cdot N_4} - R = 0.00000$$

$$R - \frac{\sqrt{N_1^2 \cdot N_4 \cdot N_2} \cdot \left[2 \cdot N_2 \cdot N_3^2 \cdot N_4 - 2 \cdot N_1 \cdot N_3 \cdot N_4^2 - N_1 \cdot N_3 \cdot N_4 + \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4) \cdot (N_3 + N_4) - N_1 \cdot N_4^2} \right] \dots}{\left[\sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4) - N_1 \cdot N_4} \right] \cdot \sqrt{N_1^2 \cdot N_4 \cdot N_4}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{2} \cdot \sqrt{D \cdot N_u^4 \cdot (A \cdot N_u - B \cdot C)} \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + C^2 \cdot B^2 \cdot N_u^4 \cdot (2 \cdot N_u - D) + C \cdot A \cdot B \cdot D \cdot N_u^4 \cdot (4 \cdot D - 5 \cdot N_u) + 2 \cdot A^2 \cdot D^2 \cdot N_u^4 \cdot (N_u - D) \dots}{B \cdot C \cdot \sqrt{N_u} \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (C + D) - B \cdot C^2 - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u \right]} = 0$$

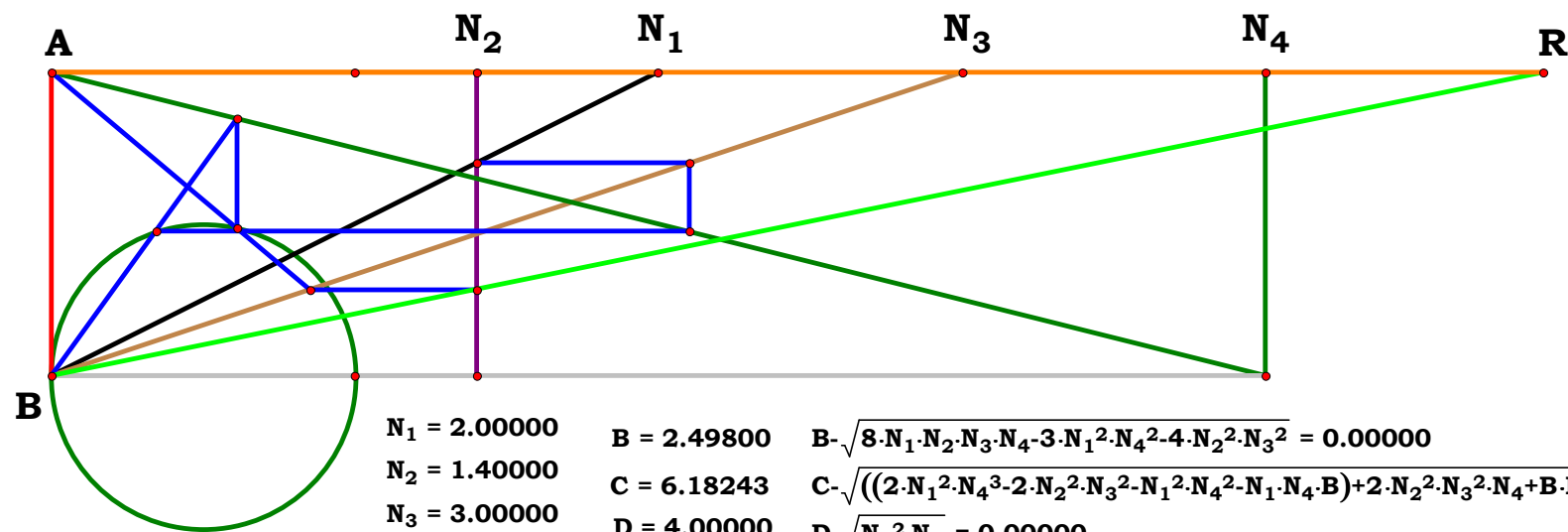


$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R = 5.665355$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 1.40000 \\ N_3 &= 3.00000 \\ N_4 &= 4.00000 \\ R &= 4.91440 \end{aligned}$$

$$\begin{aligned} B &= 2.49800 \\ C &= 6.18243 \\ D &= 4.00000 \end{aligned}$$

$$B - \sqrt{8 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4 - 3 \cdot N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3^2} = 0.00000$$

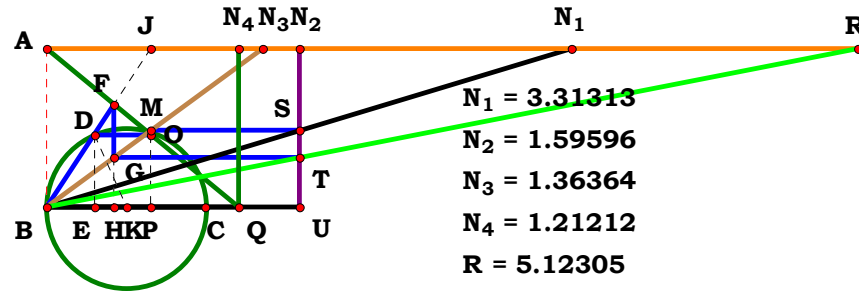
$$C - \sqrt{((2 \cdot N_1^2 \cdot N_4^3 - 2 \cdot N_2^2 \cdot N_3^2 - N_1^2 \cdot N_4^2 - N_1 \cdot N_4 \cdot B) + 2 \cdot N_2^2 \cdot N_3^2 \cdot N_4 + B \cdot N_2 \cdot N_3 \cdot N_4 + 4 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4) - 5 \cdot N_1 \cdot N_2 \cdot N_3 \cdot N_4^2} = 0.00000$$

$$D - \sqrt{N_1^2 \cdot N_4} = 0.00000$$

$$\frac{2 \cdot N_2 \cdot ((B \cdot D \cdot (N_3 + N_4) - D \cdot N_1 \cdot N_4 \cdot (N_3 + N_4) - 2 \cdot D \cdot N_3 \cdot N_4 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)) + \sqrt{2} \cdot C \cdot N_1 \cdot N_3 \cdot N_4)}{2 \cdot (B - N_1 \cdot N_4) \cdot D \cdot N_4} - R = 0.00000$$

$$R - \frac{X \cdot \left[W \cdot Z^2 \cdot n \cdot o^2 - \sqrt{8 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot n \cdot o \cdot p - 3 \cdot W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot p^2} \cdot (Y \cdot p + Z \cdot o) \dots \right.}{\left. + -\sqrt{2 \cdot Y} \cdot \sqrt{Z} \cdot \left[\frac{2 \cdot W^2 \cdot Z^3 \cdot n^2 \cdot o^2 - 2 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot p^3 + 2 \cdot X^2 \cdot Y^2 \cdot Z \cdot m^2 \cdot p^2 - W^2 \cdot Z^2 \cdot n^2 \cdot o^2 \cdot p \dots}{+ \sqrt{8 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot n \cdot o \cdot p - 3 \cdot W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot p^2} \cdot Z \cdot p \cdot (X \cdot Y \cdot m - W \cdot n \cdot o) \dots} \right. \right.} \\ \left. \left. + Y \cdot Z \cdot (2 \cdot W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p + W \cdot n \cdot o \cdot p) \right] \right.}{\sqrt{+ 4 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot n \cdot o \cdot p^2 - 5 \cdot W \cdot X \cdot Y \cdot Z^2 \cdot m \cdot n \cdot o \cdot p}} = 0$$

$$Z \cdot n \cdot o \cdot [W \cdot Z \cdot n \cdot o - \sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p) \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o)}]$$



Unit. $AB := 1$ Given. $N_1 := 3.31313$ $N_2 := 1.59596$ $N_3 := 1.36364$
 $N_4 := 1.21212$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$SU := \frac{N_2}{N_1} \quad bp := N_3 \cdot SU$$

$$OP := \frac{N_4 - bp}{N_4} \quad EK := \sqrt{\left(\frac{AB}{2}\right)^2 - OP^2} \quad BE := \frac{AB}{2} - EK \quad AJ := \frac{BE}{OP}$$

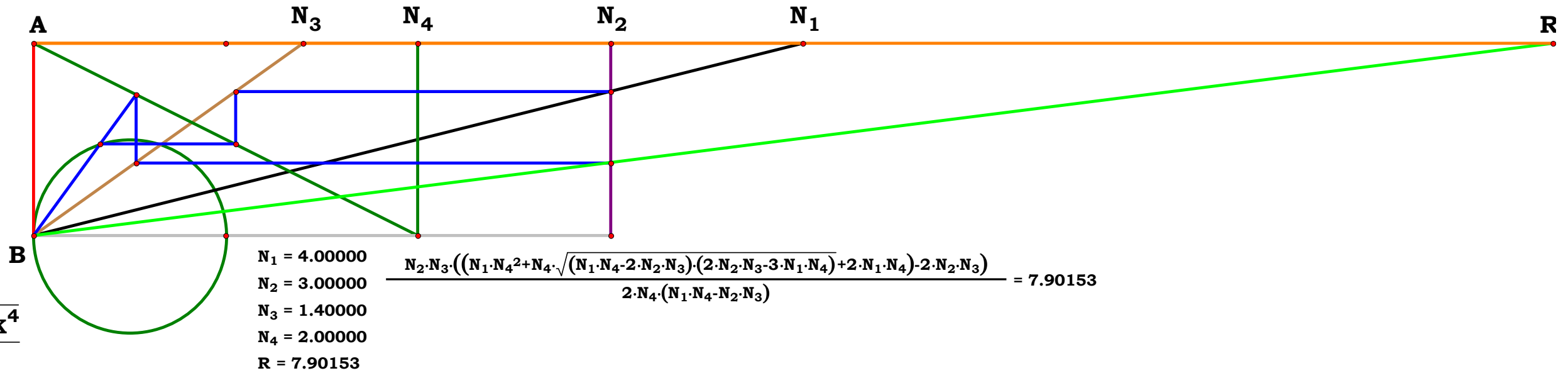
$$BH := \frac{AJ \cdot N_4}{AJ + N_4}$$

$$GH := \frac{BH}{N_3}$$

$$R := \frac{N_2}{GH}$$

$$R = 5.123112$$

$$\text{Boolean} := \frac{EK^2 + \sqrt{EK^4}}{2\sqrt{EK^4}}$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 3.00000 \\ N_3 &= 1.40000 \\ N_4 &= 2.00000 \\ R &= 7.90153 \end{aligned} \quad \frac{N_2 \cdot N_3 \cdot \left((N_1 \cdot N_4^2 + N_4 \cdot \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4) + 2 \cdot N_1 \cdot N_4} - 2 \cdot N_2 \cdot N_3) \right)}{2 \cdot N_4 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} = 7.90153$$

Definitions.

$$\text{Boolean} = 1$$

$$R - \frac{N_2 \cdot N_3 \cdot \left[N_1 \cdot N_4^2 + N_4 \cdot \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4) + 2 \cdot N_1 \cdot N_4} - 2 \cdot N_2 \cdot N_3 \right]}{2 \cdot N_4 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot \left[2 \cdot A \cdot D^2 - N_u \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot (2 \cdot D + N_u) \right]}{2 \cdot B \cdot C \cdot (A \cdot D - B \cdot C)} = 0$$



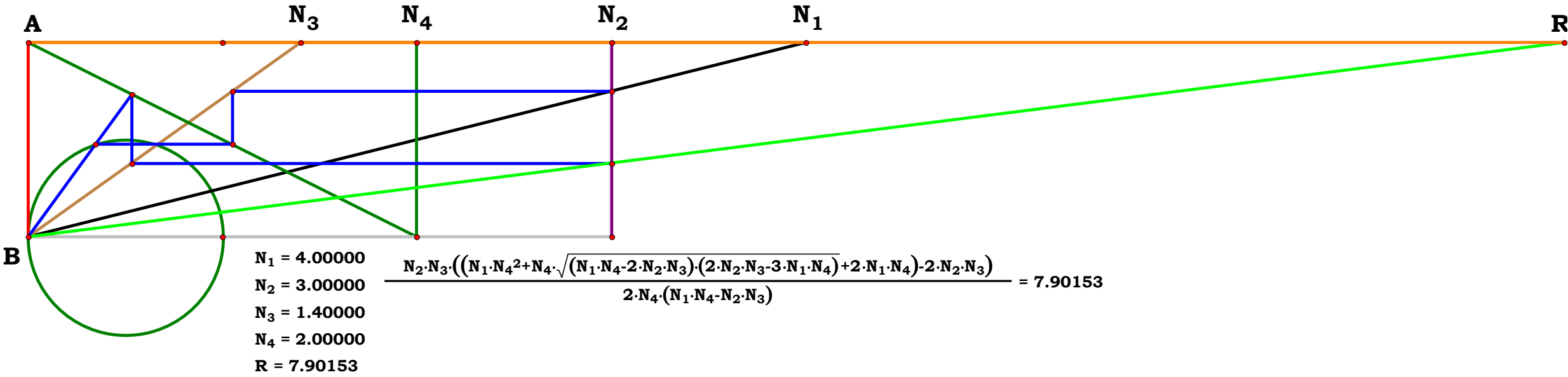
$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

$$N_1 - \frac{W}{m} = 0$$

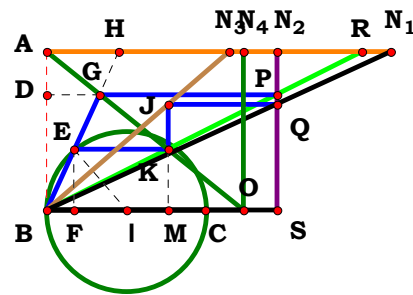
$$N_2 - \frac{X}{n} = 0$$

$$N_3 - \frac{Y}{o} = 0$$

$$N_4 - \frac{Z}{p} = 0$$



$$R - \frac{X \cdot Y \cdot [Z \cdot \sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p)} \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o) + W \cdot Z^2 \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p^2 + 2 \cdot W \cdot Z \cdot n \cdot o \cdot p]}{2 \cdot Z \cdot n \cdot o \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p)} = 0$$

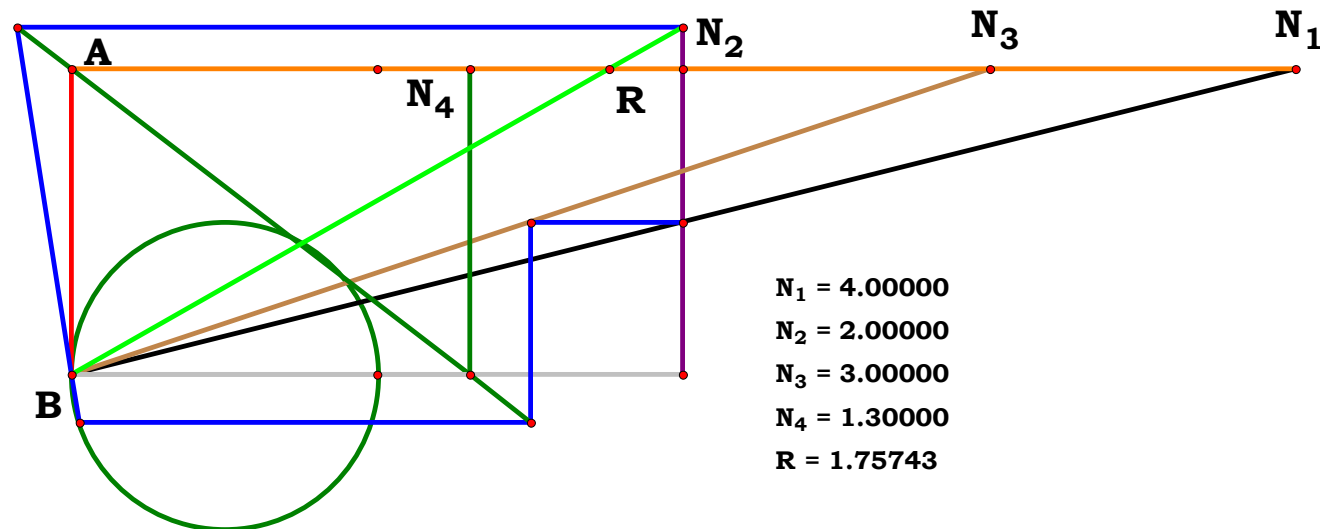


$N_1 = 2.17172$
 $N_2 = 1.45455$
 $N_3 = 1.15152$
 $N_4 = 1.24242$
 $R = 1.99216$

Unit. $AB := 1$ Given. $N_1 := 2.17172$ $N_2 := 1.45455$ $N_3 := 1.15152$ $N_4 := 1.24242$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 1.30000$
 $R = 1.75743$

$$\frac{N_1 \cdot N_2 \cdot N_4^2 \cdot (N_1 + 2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)) - 2 \cdot N_1 \cdot N_4 \cdot \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}}{2 \cdot N_1 \cdot N_4^2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} - R = 0.00000$$

Descriptions.

$$QS := \frac{N_2}{N_1} \quad BM := N_3 \cdot QS \quad KM := \frac{N_4 - BM}{N_4}$$

$$BF := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - KM^2} \quad AH := \frac{BF}{KM} \quad BD := \frac{N_4}{N_4 + AH}$$

$$R := \frac{N_2}{BD} \quad R = 1.992156$$

$$\text{Boolean} := \frac{BF^2 + \sqrt{BF^4}}{2 \sqrt{BF^4}}$$

Definitions.

Boolean = 1

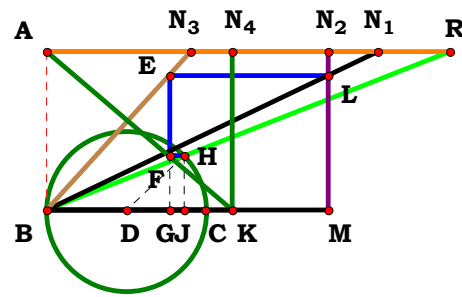
$$R - \frac{N_1 \cdot N_2 \cdot N_4^2 \cdot [N_1 + 2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)] - N_2 \cdot (N_1 \cdot N_4) \cdot \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}}{2 \cdot N_1 \cdot N_4^2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D + 2 \cdot N_u \cdot (A \cdot D - B \cdot C)}{2 \cdot B \cdot (A \cdot D - B \cdot C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot [2 \cdot W \cdot Z^2 \cdot n \cdot o - p \cdot \sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p) \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o)} - 2 \cdot X \cdot Y \cdot Z \cdot m \cdot p + W \cdot Z \cdot n \cdot o \cdot p]}{2 \cdot Z \cdot n \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p)} = 0$$



$N_1 = 2.09091$
 $N_2 = 1.77778$
 $N_3 = 0.90909$
 $N_4 = 1.17172$
 $R = 2.54547$

Unit. $AB := 1$ Given. $N_1 := 2.09091$ $N_2 := 1.77778$ $N_3 := .90909$ $N_4 := 1.17172$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$LM := \frac{N_2}{N_1} \quad BG := N_3 \cdot LM$$

$$FG := \frac{N_4 - BG}{N_4} \quad BJ := \frac{1}{2} + \sqrt{\left(\frac{1}{2}\right)^2 - FG^2}$$

$$R := \frac{BJ}{FG} \quad R = 2.545454$$

$$\text{Boolean} := \frac{BJ^2 + \sqrt{BJ^4}}{2\sqrt{BJ^4}}$$

Definitions.

Boolean = 1

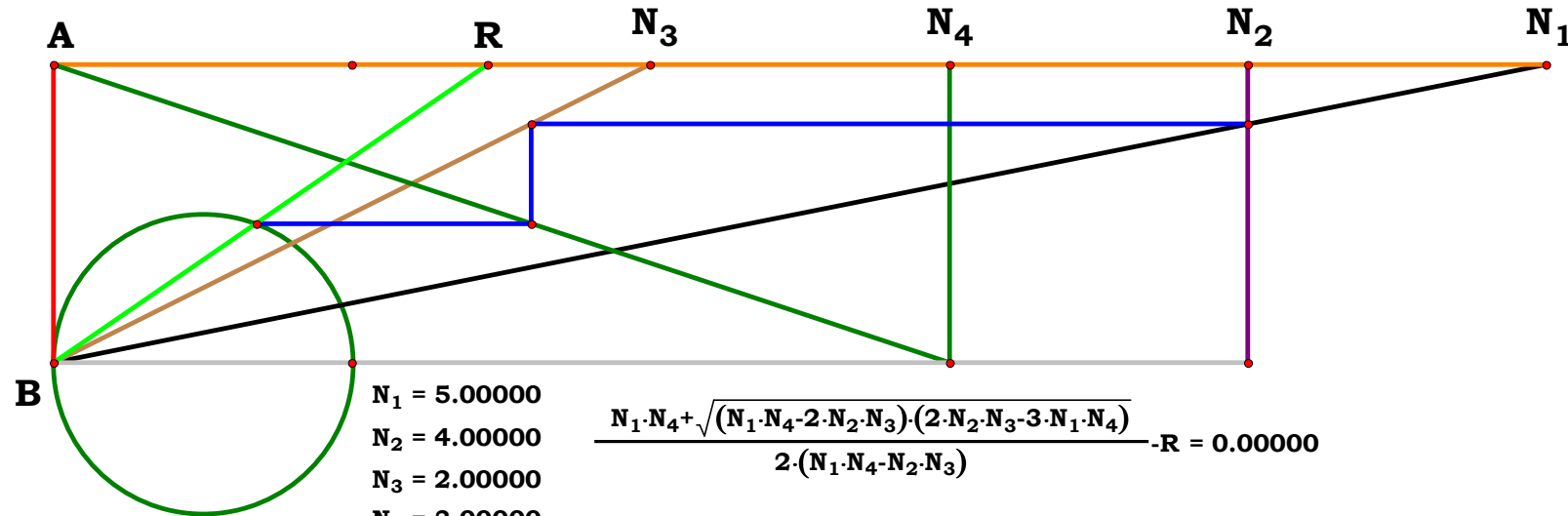
$$R - \frac{\sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)} + N_1 \cdot N_4}{2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C}{2 \cdot (B \cdot C - A \cdot D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{(W \cdot Z \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m \cdot p) \cdot (2 \cdot X \cdot Y \cdot m \cdot p - 3 \cdot W \cdot Z \cdot n \cdot o)} + W \cdot Z \cdot n \cdot o}{2 \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p)} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 2.00000$
 $N_4 = 3.00000$
 $R = 1.45608$

$$\frac{N_1 \cdot N_4 + \sqrt{(N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_3) \cdot (2 \cdot N_2 \cdot N_3 - 3 \cdot N_1 \cdot N_4)}}{2 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3)} - R = 0.00000$$



30BT8R8

Descriptions.

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad BG := \frac{N_1}{BN_1}$$

$$GH := \frac{AB \cdot BG}{BN_1} \quad BH := N_1 \cdot GH$$

$$BK := \frac{BH}{1 - GH} \quad BF := \frac{N_3 \cdot BK}{N_3 + BK}$$

$$EF := \frac{N_4 - BF}{N_4} \quad R := \frac{N_2}{EF}$$

$$R = 2.955605$$

Definitions.

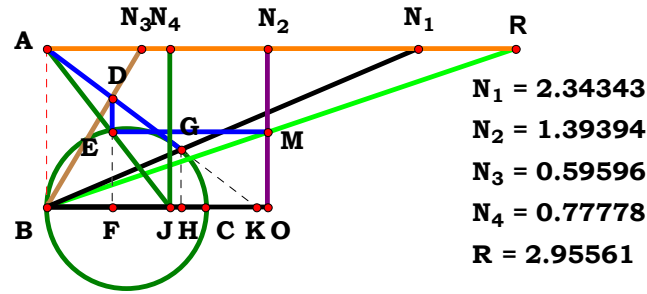
$$R - \frac{N_2 \cdot N_4 \cdot [N_1^2 + N_3 + N_1 \cdot N_3 \cdot (N_1 - 1)]}{N_1^2 \cdot N_4 + N_3 \cdot (N_4 - N_1^2) + N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)}{B \cdot (A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

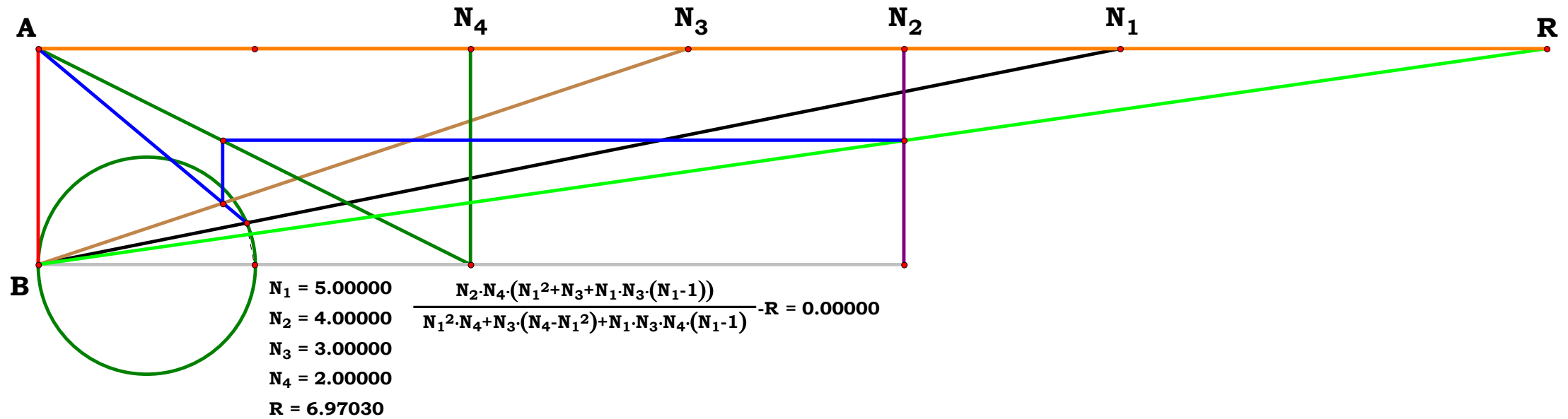
$$R - \frac{W^2 \cdot X \cdot Y \cdot Z + X \cdot Y \cdot Z \cdot m^2 + W^2 \cdot X \cdot Z \cdot o - W \cdot X \cdot Y \cdot Z \cdot m}{n \cdot (W^2 \cdot Y \cdot Z + Y \cdot Z \cdot m^2 - W^2 \cdot Y \cdot p + W^2 \cdot Z \cdot o - W \cdot Y \cdot Z \cdot m)} = 0$$

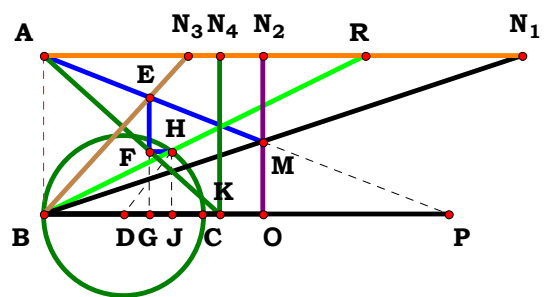


$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.34343 \quad N_2 := 1.39394 \quad N_3 := .59596 \quad N_4 := .77778$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





$N_1 = 3.02020$
 $N_2 = 1.38384$
 $N_3 = 0.90909$
 $N_4 = 1.11111$
 $R = 2.02852$

Unit. $AB := 1$ Given. $N_1 := 3.02020$ $N_2 := 1.38384$ $N_3 := .90909$ $N_4 := 1.11111$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$MO := \frac{N_2}{N_1} \quad BP := \frac{N_2}{1 - MO}$$

$$BG := \frac{N_3 \cdot BP}{N_3 + BP}$$

$$FG := \frac{N_4 - BG}{N_4}$$

$$BJ := \frac{1}{2} + \sqrt{\left(\frac{1}{2}\right)^2 - FG^2}$$

$$R := \frac{BJ}{FG} \quad R = 2.028529$$

$$\text{Boolean} := \frac{BJ^2 + \sqrt{BJ^4}}{2\sqrt{BJ^4}}$$

Definitions.

Boolean = 1

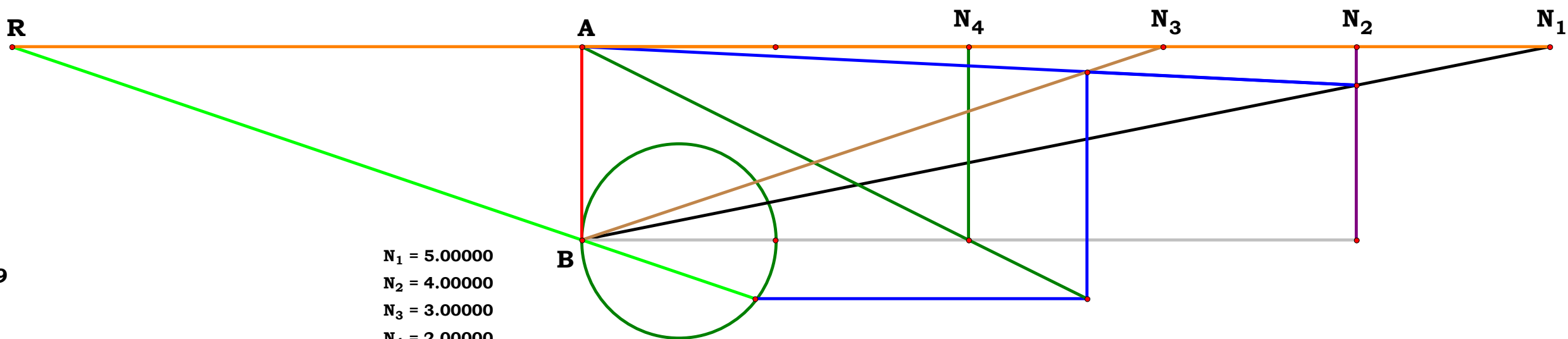
$$R - \frac{\sqrt{[N_3 \cdot N_4 \cdot (N_1 - N_2) - N_1 \cdot N_2 \cdot (2 \cdot N_3 - N_4)] \cdot [2 \cdot N_1 \cdot N_2 \cdot N_3 - 3 \cdot N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)]} + N_1 \cdot N_4 \cdot (N_2 + N_3) - N_2 \cdot N_3 \cdot N_4}{2 \cdot [N_3 \cdot N_4 \cdot (N_1 - N_2) - N_1 \cdot N_2 \cdot (N_3 - N_4)]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A - B - C - \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}}{2 \cdot (A - B - C + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{(W \cdot X \cdot Z \cdot o - 2 \cdot W \cdot X \cdot Y \cdot p + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m) \cdot (2 \cdot W \cdot X \cdot Y \cdot p - 3 \cdot W \cdot X \cdot Z \cdot o - 3 \cdot W \cdot Y \cdot Z \cdot n + 3 \cdot X \cdot Y \cdot Z \cdot m)} + W \cdot X \cdot Z \cdot o + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m}{2 \cdot (W \cdot X \cdot Z \cdot o - W \cdot X \cdot Y \cdot p + W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m)} = 0$$

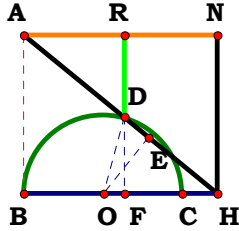


$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $R = -2.94631$

$$\frac{(N_1 \cdot N_4 \cdot (N_2 + N_3) - N_2 \cdot N_3 \cdot N_4) + \sqrt{((N_3 \cdot N_4 \cdot (N_1 - N_2) - N_1 \cdot N_2 \cdot (2 \cdot N_3 - N_4)) \cdot (2 \cdot N_1 \cdot N_2 \cdot N_3 - 3 \cdot N_4 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)))}}{(2 \cdot (N_3 \cdot N_4 \cdot (N_1 - N_2) - N_1 \cdot N_2 \cdot (N_3 - N_4)))} - R = 0.00000$$



30BT9R0



$$\begin{aligned} N &= 1.22222 \\ R &= 0.63319 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N := 1.22222$$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BH := N \quad BO := \frac{AB}{2} \quad DO := BO \quad AH := \sqrt{AB^2 + N^2}$$

$$HO := BH - BO \quad EH := \frac{BH \cdot HO}{AH} \quad EO := \frac{AB \cdot HO}{AH}$$

$$DE := \sqrt{DO^2 - EO^2} \quad DH := EH + DE \quad FH := \frac{BH \cdot DH}{AH}$$

$$R := BH - FH \quad R = 0.633191$$

$$\text{Boolean} := \frac{DE^2 + \sqrt{DE^4}}{2\sqrt{DE^4}}$$

Definitions.

$$\text{Boolean} = 1$$

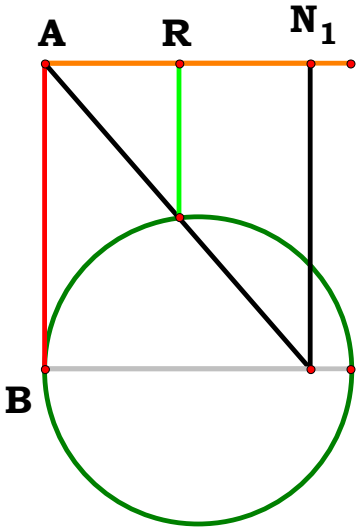
$$R - \frac{N^2 + 2N - N(4 \cdot N - 3 \cdot N^2)^{\frac{1}{2}}}{2N^2 + 2} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{N_u \cdot [2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)}]}{2 \cdot (A^2 + N_u^2)} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot [Z + 2 \cdot q - \sqrt{Z \cdot (4 \cdot q - 3 \cdot Z)}]}{2 \cdot (Z^2 + q^2)} = 0$$

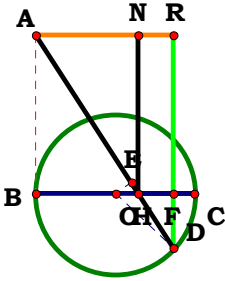


$$\begin{aligned} N_1 &= 0.86667 \\ R &= 0.43681 \end{aligned}$$

$$\frac{(N_1^2 + 2 \cdot N_1) \cdot N_1 \cdot (4 \cdot N_1 - 3 \cdot N_1^2)^{\frac{1}{2}}}{2 \cdot N_1^2 + 2} \cdot R = 0.00000$$



30BT9R1



Unit. AB := 1 Given. N := .64646

$$N = 0.64646 \quad N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

$$R = 0.86640$$

Descriptions.

$$BH := N \quad BO := \frac{AB}{2}$$

$$DO := BO \quad AH := \sqrt{AB^2 + N^2}$$

$$HO := BH - BO \quad EH := \frac{BH \cdot HO}{AH}$$

$$EO := \frac{AB \cdot HO}{AH} \quad DE := \sqrt{DO^2 - EO^2}$$

$$DH := EH - DE \quad FH := \frac{BH \cdot DH}{AH}$$

$$R := BH - FH \quad R = 0.8664$$

Definitions.

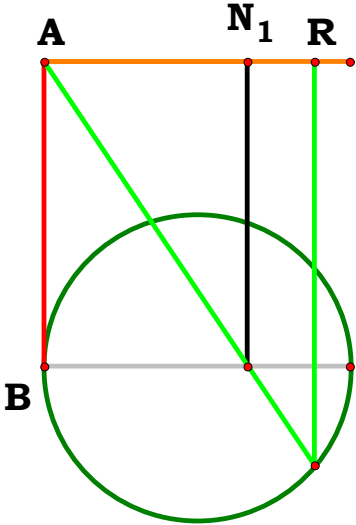
$$R - \frac{N^2 + 2N + N(4 \cdot N - 3 \cdot N^2)^{\frac{1}{2}}}{2N^2 + 2} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{N_u \cdot [2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)}]}{2 \cdot (A^2 + N_u^2)} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot [Z + 2 \cdot q + \sqrt{Z \cdot (4 \cdot q - 3 \cdot Z)}]}{2 \cdot (Z^2 + q^2)} = 0$$



$$N_1 = 0.66667$$

$$R = 0.88185$$

$$\frac{N_1^2 + 2 \cdot N_1 + N_1 \cdot \sqrt{4 \cdot N_1 - 3 \cdot N_1^2}}{2 \cdot N_1^2 + 2} - R = 0.00000$$

30BT9R3

$$\mathbf{BE} := \frac{\mathbf{N}^2 + 2\mathbf{N} + \mathbf{N}(4 \cdot \mathbf{N} - 3 \cdot \mathbf{N}^2)^{\frac{1}{2}}}{2\mathbf{N}^2 + 2}$$

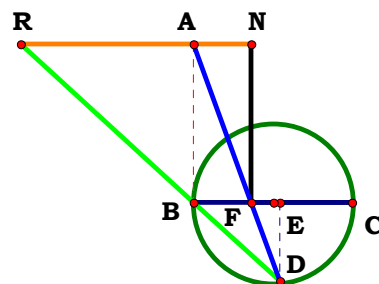
$$\mathbf{R} := \frac{\mathbf{BE} \cdot \mathbf{AB}}{\mathbf{DE}} \quad \mathbf{R} = -1.093848$$

$$R - \frac{2 \cdot N + N^2 + N \cdot \sqrt{4 \cdot N - 3 \cdot N^2}}{2 \cdot N^2 - N - \sqrt{4 \cdot N - 3 \cdot N^2}} = 0$$

$$R - \frac{N_u \cdot [2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)}]}{2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u} = 0$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

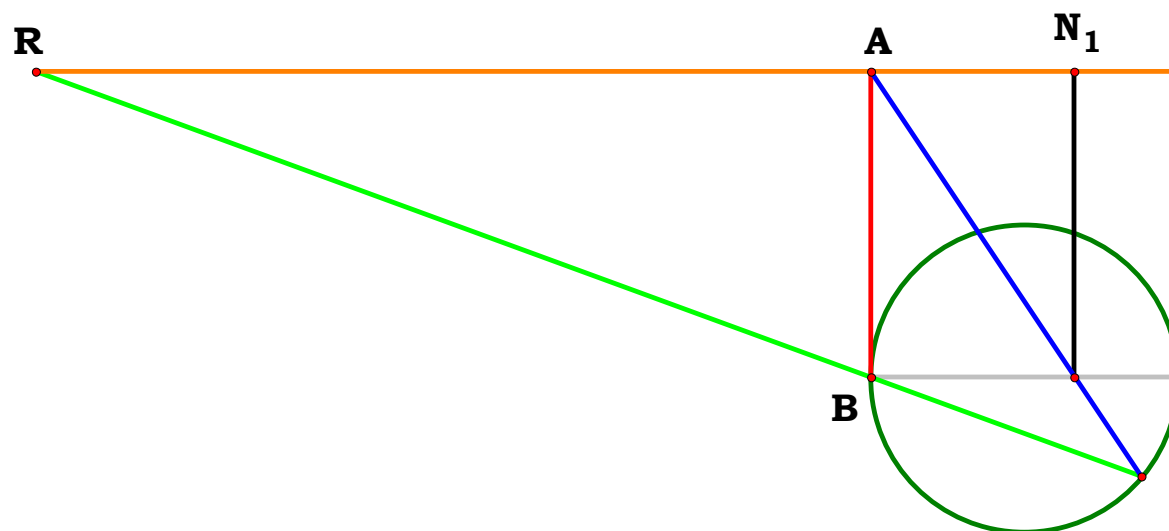
$$R - \frac{Z \cdot [Z + 2 \cdot q + \sqrt{Z \cdot (4 \cdot q - 3 \cdot Z)}]}{2 \cdot Z^2 - Z \cdot q - q \cdot \sqrt{Z \cdot (4 \cdot q - 3 \cdot Z)}} = 0$$



N = 0.36364
R = -1.09384

Unit. AB := 1 Given. N := .36364

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$



$$N_1 = 0.66667$$

R = -2.73205

$$\frac{2 \cdot N_1 + N_1^2 + N_1 \cdot \sqrt{4 \cdot N_1 - 3 \cdot N_1^2}}{2 \cdot N_1^2 - N_1 - \sqrt{4 \cdot N_1 - 3 \cdot N_1^2}} \cdot R = 0.00000$$



Descriptions.

$BE := N$ $CE := AB - BE$

$DE := \sqrt{BE \cdot CE}$ $R := \frac{BE}{DE}$

$R = 1.927255$

Definitions.

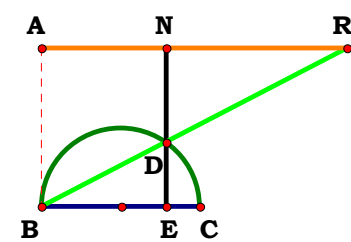
$R - \frac{N}{\left(N - N^2\right)^{\frac{1}{2}}} = 0$

$N - \frac{N_u}{A} = 0$

$R - \frac{N_u}{\sqrt{N_u \cdot (A - N_u)}} = 0$

$N - \frac{Z}{q} = 0$

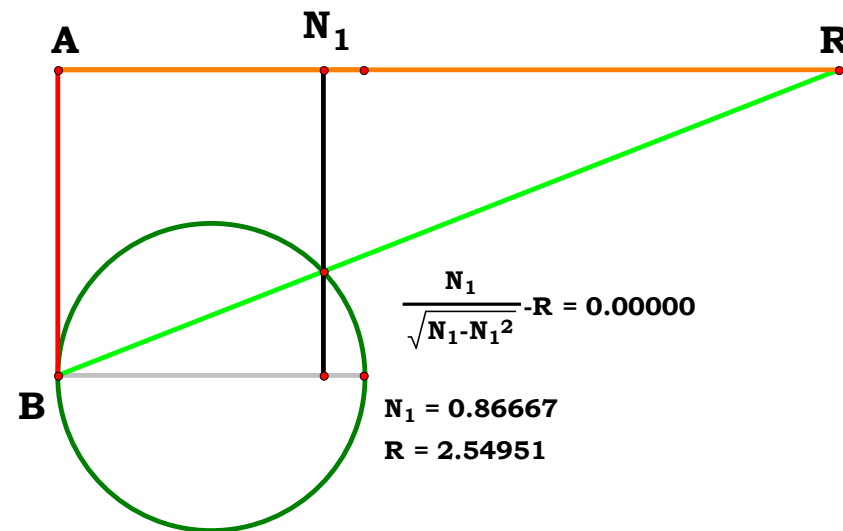
$R - \frac{Z}{\sqrt{Z \cdot (q - Z)}} = 0$



$N = 0.78788$
 $R = 1.92725$

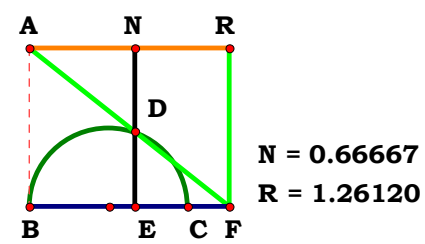
Unit. $AB := 1$ Given. $N := .78788$

$N_u := 3$ $A := \frac{N_u}{N}$ $Z := 20$ $q := \frac{Z}{N}$



$\frac{N_1}{\sqrt{N_1 - N_1^2}} \cdot R = 0.00000$

$N_1 = 0.86667$
 $R = 2.54951$



Unit. AB := 1 Given. N := .66667

$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$

Descriptions.

$BE := N \quad CE := AB - BE$

$DE := \sqrt{BE \cdot CE}$

$DN := AB - DE \quad R := \frac{N}{DN}$

$R = 1.261207$

Definitions.

$R - \frac{N}{1 - \left(N - N^2\right)^{\frac{1}{2}}} = 0$

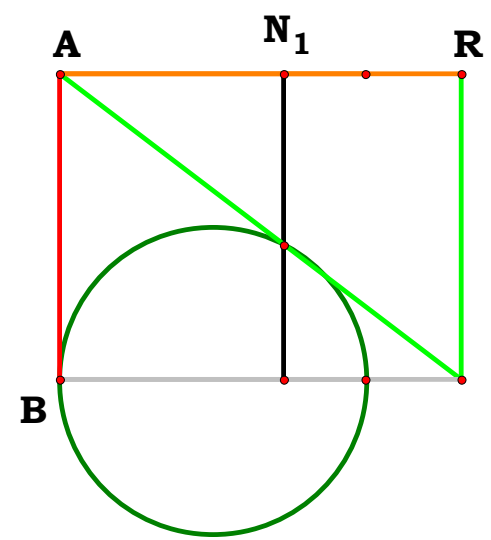
$N - \frac{N_u}{A} = 0$

$R - \frac{N_u}{A - \sqrt{N_u \cdot (A - N_u)}} = 0$

$N - \frac{Z}{q} = 0$

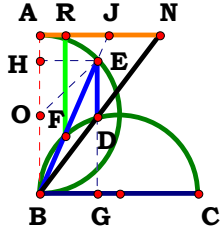
$R - \frac{Z}{q - \sqrt{Z \cdot (q - Z)}} = 0$

$N_1 = 0.73333$
 $R = 1.31473$
 $\frac{N_1}{1 - \sqrt{N_1 - N_1^2}} - R = 0.00000$





3OBT10AR0



$$N = 0.75758$$

$$R = 0.15790$$

Unit. $AB := 1$ Given. $N := .75758$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BG := \frac{N^2}{N^2 + 1} \quad HO := \sqrt{\left(\frac{AB}{2}\right)^2 - BG^2}$$

$$BH := \frac{AB}{2} + HO \quad AJ := \frac{BG \cdot AB}{BH}$$

$$R := \frac{AJ^2}{AJ^2 + 1} \quad R = 0.157899$$

Definitions.

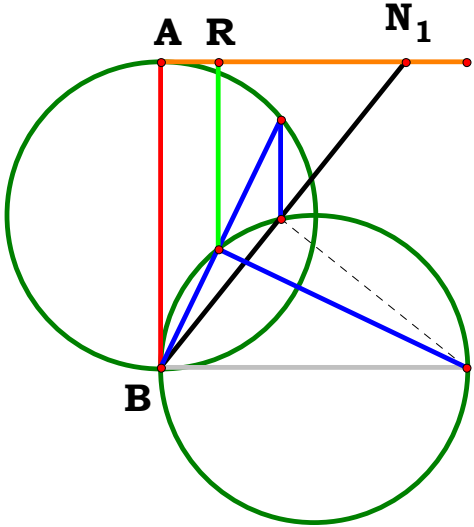
$$R - \frac{N^2 - \sqrt{2 \cdot N^2 - 3 \cdot N^4 + 1} + 1}{2N^2 + 2} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u) + N_u^2}}{2 \cdot (A^2 + N_u^2)} = 0$$

$$N - \frac{Z}{q} = 0$$

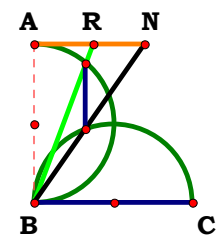
$$R - \frac{Z^2 + q^2 - \sqrt{2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4}}{2 \cdot (Z^2 + q^2)} = 0$$



$$N_1 = 0.80000$$

$$R = 0.18741$$

$$\frac{(N_1^2 - \sqrt{(2 \cdot N_1^2 - 3 \cdot N_1^4) + 1}) + 1}{2 \cdot N_1^2 + 2} - R = 0.00000$$



$$\begin{aligned} N &= 0.69697 \\ R &= 0.37225 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N := .69697$$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

$$R := \frac{2N^2}{N^2 + \left(2 \cdot N^2 - 3 \cdot N^4 + 1\right)^{\frac{1}{2}} + 1}$$

$$R = 0.372253$$

Definitions.

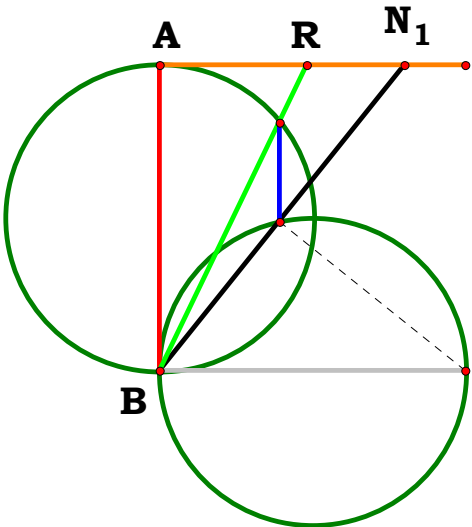
$$R - \frac{N^2 - \sqrt{2 \cdot N^2 - 3 \cdot N^4 + 1} + 1}{2N^2} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2 - \sqrt{\left(A + N_u\right) \cdot \left(A^2 + 3 \cdot N_u^2\right) \cdot \left(A - N_u\right)} + N_u^2}{2 \cdot N_u^2} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z^2 + q^2 - \sqrt{2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4}}{2 \cdot Z^2} = 0$$



$$N_1 = 0.80000$$

$$R = 0.48025$$

$$\frac{\left(N_1^2 - \sqrt{\left(2 \cdot N_1^2 - 3 \cdot N_1^4\right) + 1}\right) + 1}{2 \cdot N_1^2} - R = 0.00000$$



30BT10AR2

Descriptions.

$$EG := \frac{N}{N^2 + 1} \quad BF := EG$$

$$AF := AB - BF \quad DF := \sqrt{BF \cdot AF}$$

$$R := DF \quad R = 0.498472$$

Definitions.

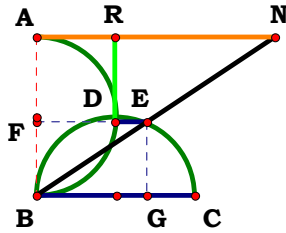
$$R - \frac{\left(N^3 - N^2 + N\right)^{\frac{1}{2}}}{N^2 + 1} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{\sqrt{A \cdot N_u \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}}{A^2 + N_u^2} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{q} \cdot \sqrt{Z \cdot \left(Z^2 - Z \cdot q + q^2\right)}}{Z^2 + q^2} = 0$$

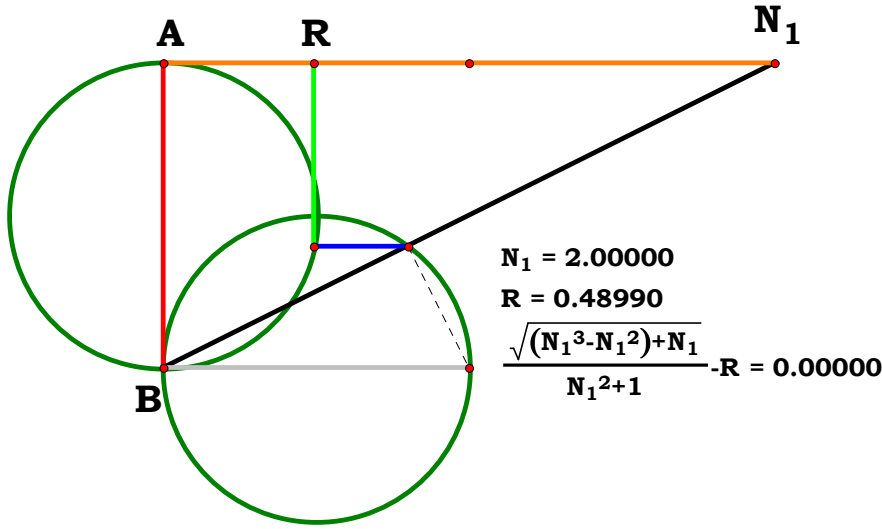


$$N = 1.50505$$

$$R = 0.49847$$

Unit. $AB := 1$ Given. $N := 1.50505$

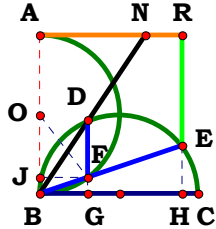
$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$



$$N_1 = 2.00000$$

$$R = 0.48990$$

$$\frac{\sqrt{\left(N_1^3 - N_1^2\right) + N_1}}{N_1^2 + 1} - R = 0.00000$$



N = 0.66667
R = 0.89411

Unit. AB := 1 Given. N := .66667

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BG := \frac{N^2}{N^2 + 1} \quad FJ := BG$$

$$OJ := \sqrt{\left(\frac{AB}{2}\right)^2 - FJ^2} \quad AJ := \frac{AB}{2} + OJ$$

$$BH := AJ \quad R := BH$$

$$R = 0.894112$$

Definitions.

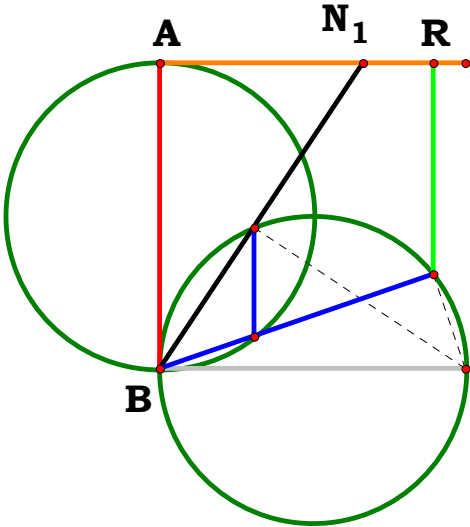
$$R - \frac{N^2 + \sqrt{2 \cdot N^2 - 3 \cdot N^4 + 1 + 1}}{2 \cdot (N^2 + 1)} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u) + N_u^2}}{2 \cdot (A^2 + N_u^2)} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z^2 + q^2 + \sqrt{2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4}}{2 \cdot (Z^2 + q^2)} = 0$$



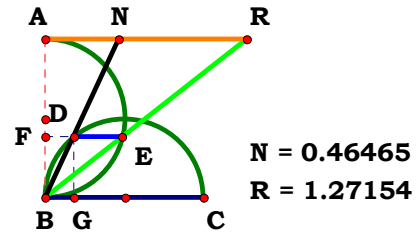
N₁ = 0.66667

R = 0.89411

$$\frac{N_1^2 + \sqrt{(2 \cdot N_1^2 - 3 \cdot N_1^4) + 1 + 1}}{2 \cdot (N_1^2 + 1)} - R = 0.00000$$

$$\frac{2 \cdot N_1^4}{(N_1^2 + 1) \cdot ((N_1^2 - \sqrt{(2 \cdot N_1^2 - 3 \cdot N_1^4) + 1}) + 1)} - R = 0.00000$$

30BT10AR4



Unit. $AB := 1$ **Given.** $N := .46465$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{N} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{N}$$

Descriptions.

$$\mathbf{BN} := \sqrt{\mathbf{AB}^2 + \mathbf{N}^2} \quad \mathbf{BD} := \frac{\mathbf{N}}{\mathbf{BN}}$$

$$\mathbf{DG} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}} \quad \mathbf{FE} := \sqrt{\mathbf{DG} \cdot (\mathbf{AB} - \mathbf{DG})}$$

$$\mathbf{R} := \frac{\mathbf{FE} \cdot \mathbf{AB}}{\mathbf{DG}} \qquad \mathbf{R} = 1.271537$$

Definitions

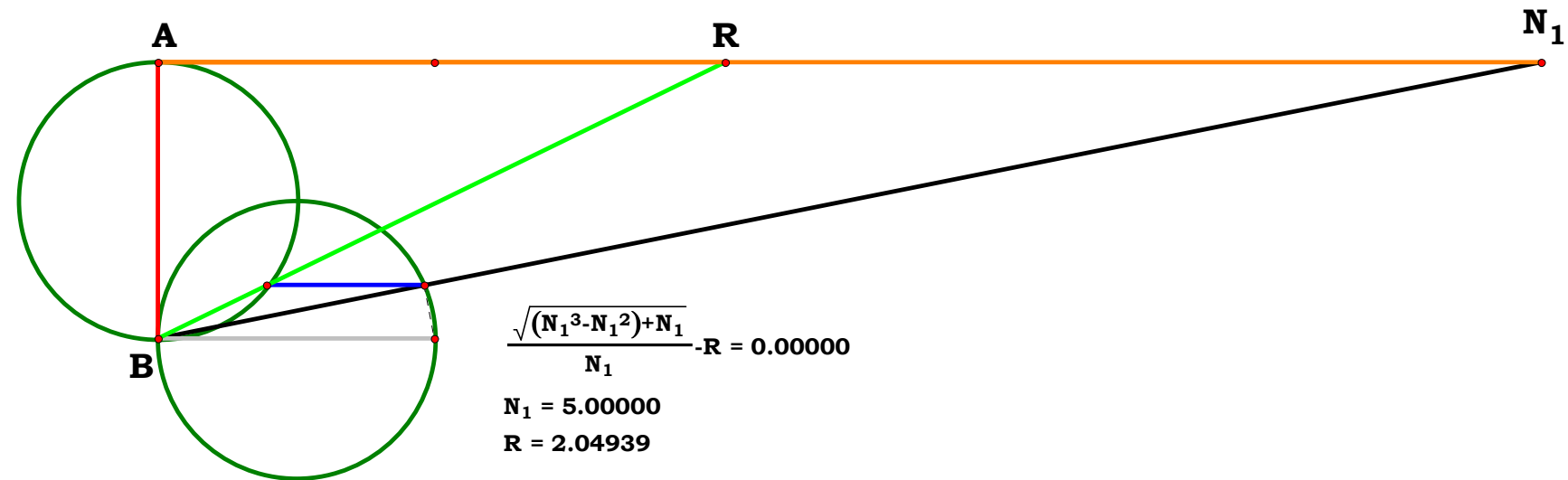
$$\mathbf{R} - \frac{\sqrt{(\mathbf{N}^3 - \mathbf{N}^2 + \mathbf{N})}}{\mathbf{N}} = 0$$

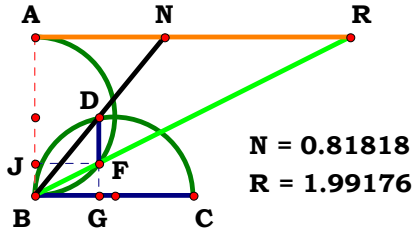
$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}} = \mathbf{0}$$

$$\mathbf{N} - \frac{\mathbf{z}}{q} = \mathbf{0}$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{z} \cdot (\mathbf{z}^2 - \mathbf{z} \cdot \mathbf{q} + \mathbf{q}^2)}}{\mathbf{z} \cdot \sqrt{\mathbf{q}}} = 0$$





Unit. AB := 1 Given. N := .81818

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BN := \sqrt{AB^2 + N^2} \quad BD := \frac{N}{BN}$$

$$BG := \frac{N \cdot BD}{BN}$$

$$FG := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - BG^2} \quad R := \frac{BG \cdot AB}{FG}$$

$$R = 1.991767$$

Definitions.

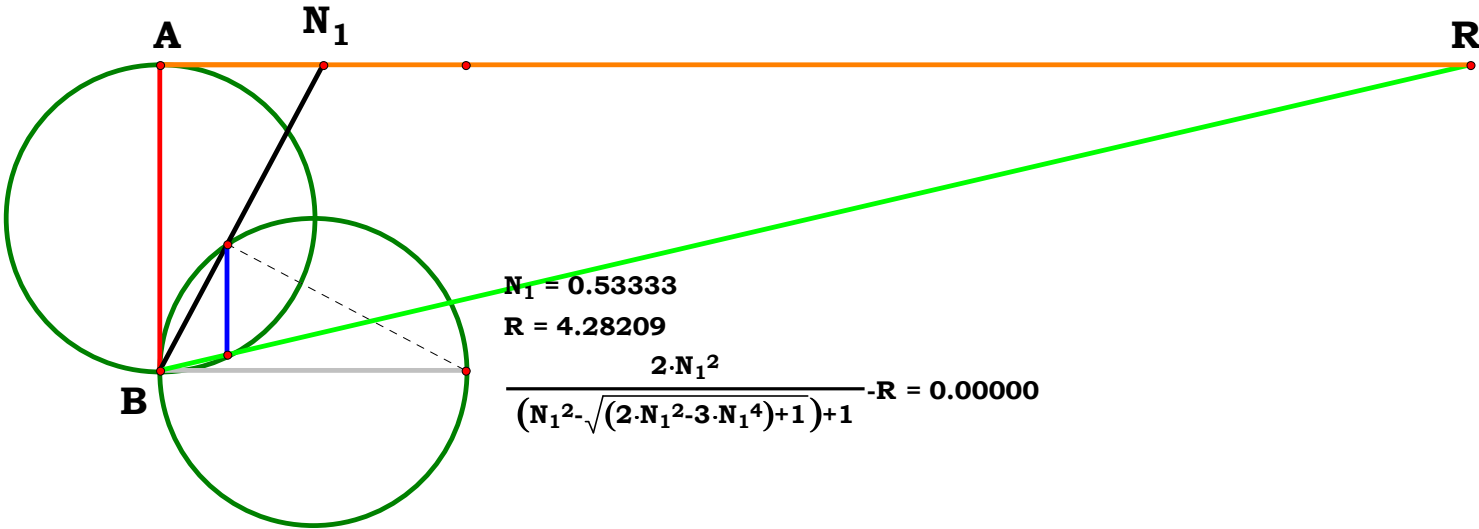
$$R - \frac{2 \cdot N^2}{N^2 - \sqrt{2 \cdot N^2 - 3 \cdot N^4} + 1 + 1} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{2 \cdot N_u^2}{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Z^2}{Z^2 + q^2 - \sqrt{-3 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 + q^4}} = 0$$



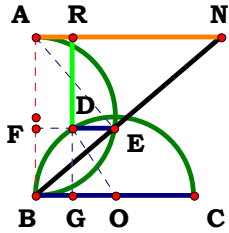
$$N_1 = 0.53333$$

$$R = 4.28209$$

$$\frac{2 \cdot N_1^2}{(N_1^2 - \sqrt{(2 \cdot N_1^2 - 3 \cdot N_1^4) + 1}) + 1} - R = 0.00000$$



30BT10BR0



$$N = 1.17172$$

$$R = 0.23092$$

Unit. $AB := 1$ Given. $N := 1.17172$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BN := \sqrt{N^2 + AB^2} \quad BE := \frac{AB^2}{BN}$$

$$BF := \frac{AB \cdot BE}{BN} \quad DG := BF$$

$$GO := \sqrt{\left(\frac{AB}{2}\right)^2 - DG^2} \quad BG := \frac{AB}{2} - GO$$

$$R := BG \quad R = 0.230918$$

Definitions.

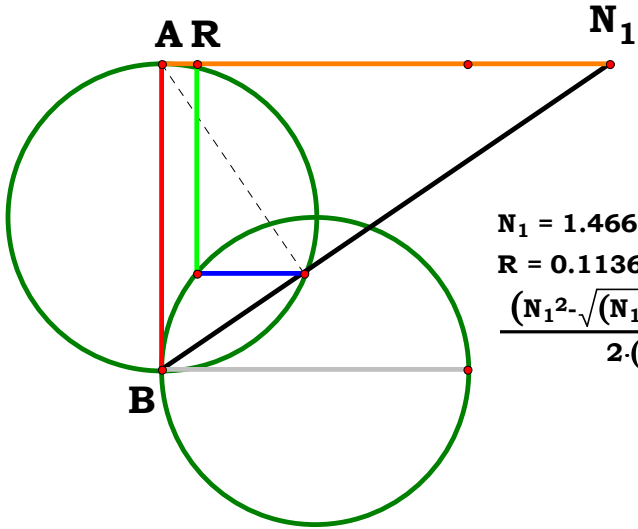
$$R - \frac{N^2 - \sqrt{N^4 + 2 \cdot N^2 - 3} + 1}{2 \cdot (N^2 + 1)} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2 + N_u^2 - \sqrt{(N_u - A) \cdot (A + N_u) \cdot (3 \cdot A^2 + N_u^2)}}{2 \cdot (A^2 + N_u^2)} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z^2 + q^2 - \sqrt{Z^4 + 2 \cdot Z^2 \cdot q^2 - 3 \cdot q^4}}{2 \cdot (Z^2 + q^2)} = 0$$

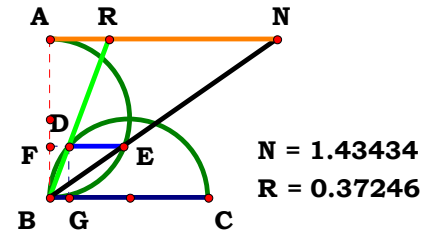


$$N_1 = 1.46667$$

$$R = 0.11362$$

$$\frac{(N_1^2 - \sqrt{(N_1^4 + 2 \cdot N_1^2 - 3)} + 1)}{2 \cdot (N_1^2 + 1)} - R = 0.00000$$

3OBT10BR1


$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$
$$\mathbf{DG} := \frac{1}{\mathbf{N}^2 + 1} \quad \mathbf{BG} := \frac{\mathbf{N}^2 - \sqrt{\mathbf{N}^4 + 2 \cdot \mathbf{N}^2 - 3} + 1}{2 \cdot (\mathbf{N}^2 + 1)}$$

$$\mathbf{R} := \frac{\mathbf{BG} \cdot \mathbf{AB}}{\mathbf{DG}} \qquad \mathbf{R} = 0.372457$$

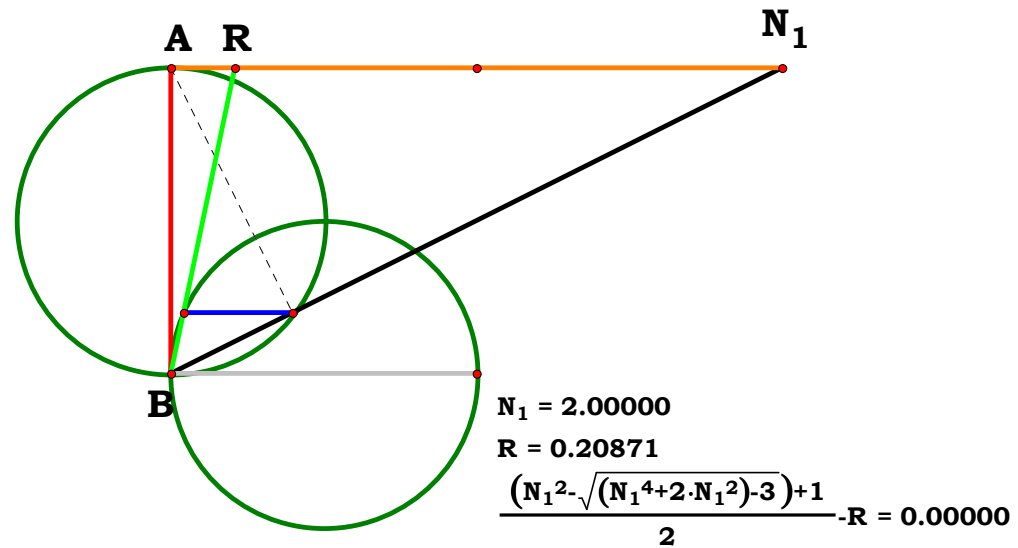
$$R - \frac{N^2 - \sqrt{N^4 + 2 \cdot N^2 - 3} + 1}{2} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

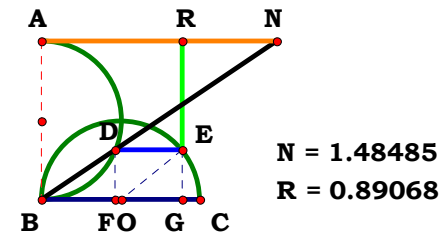
$$R - \frac{A^2 + N_u^2 - \sqrt{[(N_u - A) \cdot (A + N_u) \cdot (3 \cdot A^2 + N_u^2)]}}{2 \cdot A^2} = 0$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$R - \frac{z^2 + q^2 - \sqrt{z^4 + 2 \cdot z^2 \cdot q^2 - 3 \cdot q^4}}{2 \cdot q^2} = 0$$



30BT10BR2

Unit. $AB := 1$ Given. $N := 1.48485$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{N} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{N}$$

Descriptions.

$$\mathbf{DF} := \frac{1}{\mathbf{N}^2 + 1} \quad \mathbf{GO} := \sqrt{\left(\frac{\mathbf{AB}}{2}\right)^2 - \mathbf{DF}^2}$$

$$\mathbf{BG} := \frac{\mathbf{AB}}{2} + \mathbf{GO} \quad \mathbf{R} := \mathbf{BG}$$

R = 0.890685

Definitions.

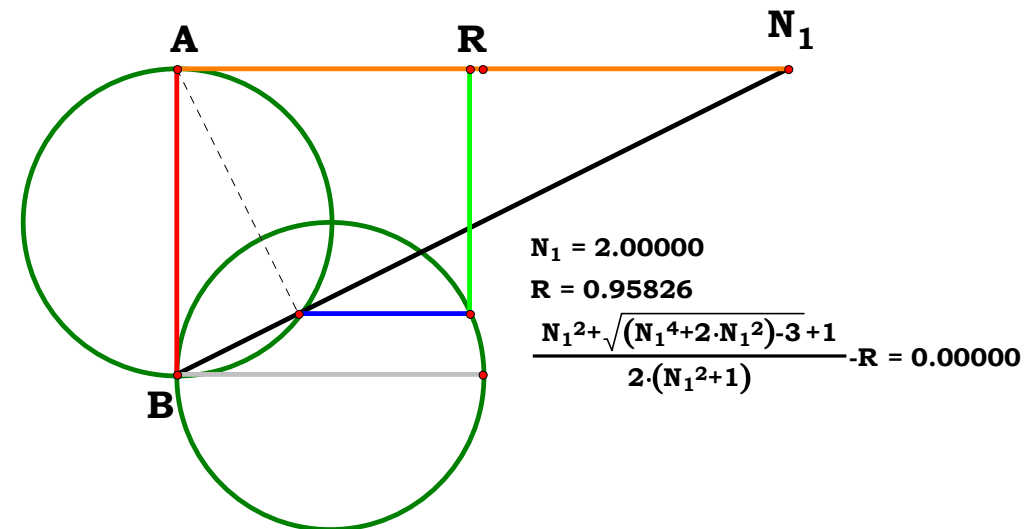
$$\mathbf{R} - \frac{\mathbf{N}^2 + \sqrt{\mathbf{N}^4 + 2 \cdot \mathbf{N}^2 - 3} + 1}{2 \cdot (\mathbf{N}^2 + 1)} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{A}^2 + \mathbf{N_u}^2 + \sqrt{2 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^2 - 3 \cdot \mathbf{A}^4 + \mathbf{N_u}^4}}{2 \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)} = 0$$

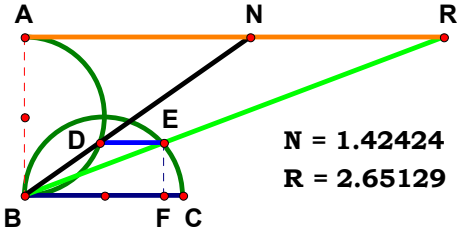
$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$R - \frac{z^2 + q^2 + \sqrt{z^4 + 2 \cdot z^2 \cdot q^2 - 3 \cdot q^4}}{2 \cdot (z^2 + q^2)} = 0$$





30BT10BR4



Unit. $AB := 1$ Given. $N := 1.42424$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$BF := \frac{N^2 + \sqrt{N^4 + 2 \cdot N^2 - 3 + 1}}{2 \cdot (N^2 + 1)}$$

$$EF := \frac{1}{N^2 + 1} \quad R := \frac{BF \cdot AB}{EF}$$

$$R = 2.651284$$

Definitions.

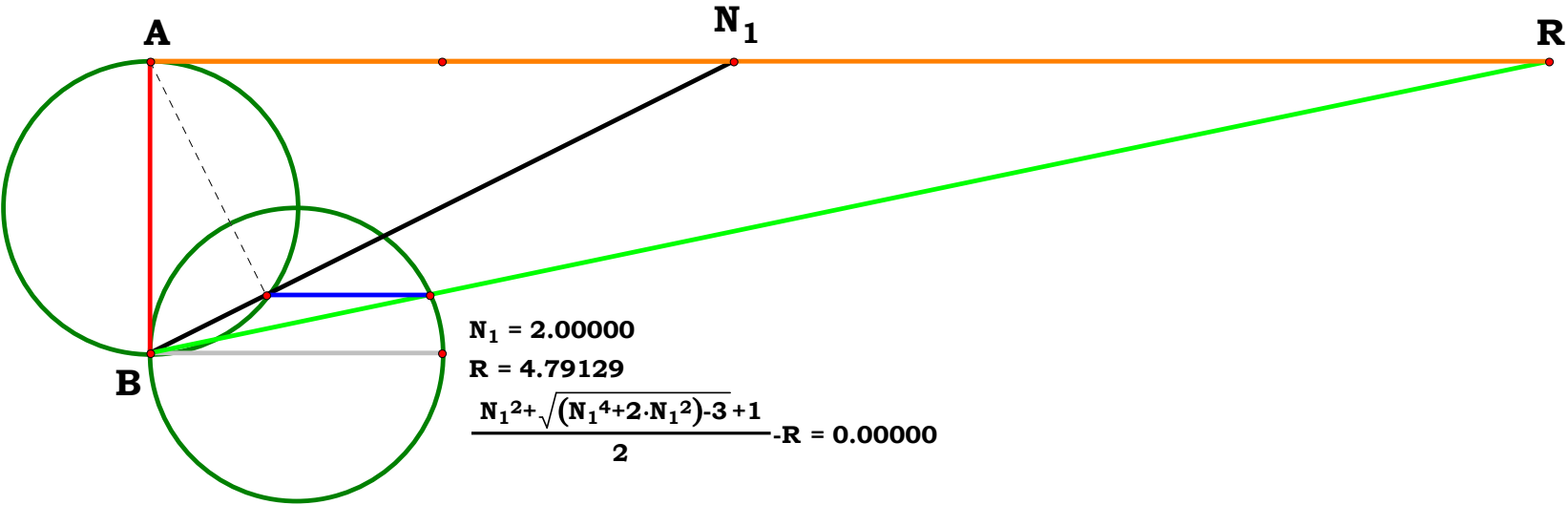
$$R - \frac{N^2 + \sqrt{N^4 + 2 \cdot N^2 - 3 + 1}}{2} = 0$$

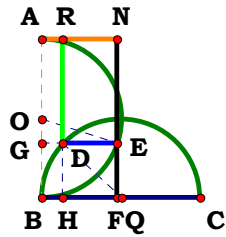
$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4}}{2 \cdot A^2} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{Z^2 + q^2 + \sqrt{Z^4 + 2 \cdot Z^2 \cdot q^2 - 3 \cdot q^4}}{2 \cdot q^2} = 0$$





$$N = 0.47475$$

$$R = 0.13630$$

Unit. $AB := 1$ Given. $N := .47475$

$$N_u := 3 \quad A := \frac{N_u}{N} \quad Z := 20 \quad q := \frac{Z}{N}$$

Descriptions.

$$EG := N \quad GO := \sqrt{\left(\frac{AB}{2}\right)^2 - EG^2}$$

$$BG := \frac{AB}{2} - GO \quad DH := BG$$

$$HQ := \sqrt{\left(\frac{AB}{2}\right)^2 - DH^2} \quad BH := \frac{AB}{2} - HQ$$

$$R := BH \quad R = 0.136309$$

Definitions.

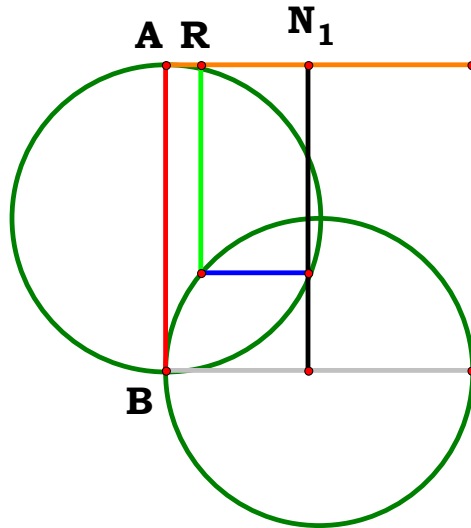
$$R - \frac{1 - \sqrt{4 \cdot N^2 + 2 \cdot \sqrt{1 - 4 \cdot N^2} - 1}}{2} = 0$$

$$N - \frac{N_u}{A} = 0$$

$$R - \frac{A - \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}}{2 \cdot A} = 0$$

$$N - \frac{Z}{q} = 0$$

$$R - \frac{q - \sqrt{4 \cdot Z^2 - q^2 + 2 \cdot q \cdot \sqrt{q^2 - 4 \cdot Z^2}}}{2 \cdot q} = 0$$

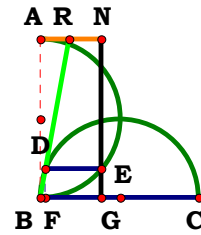


$$\frac{1 - \sqrt{(4 \cdot N_1^2 + 2 \cdot \sqrt{1 - 4 \cdot N_1^2}) - 1}}{2} \cdot R = 0.00000$$

$$N_1 = 0.46667$$

$$R = 0.11622$$

30BT10CR1



N = 0.38384
R = 0.18578

Unit. $AB := 1$ Given. $N := .38384$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$

Descriptions.

$$\mathbf{DF} := \frac{1 - \left(1 - 4 \cdot \mathbf{N}^2\right)^{\frac{1}{2}}}{2}$$

$$\mathbf{BF} := \frac{1 - \sqrt{4 \cdot \mathbf{N}^2} + 2 \cdot \sqrt{1 - 4 \cdot \mathbf{N}^2} - 1}{2}$$

$$R := \frac{BF \cdot AB}{DF} \quad R = 0.185782$$

Definitions.

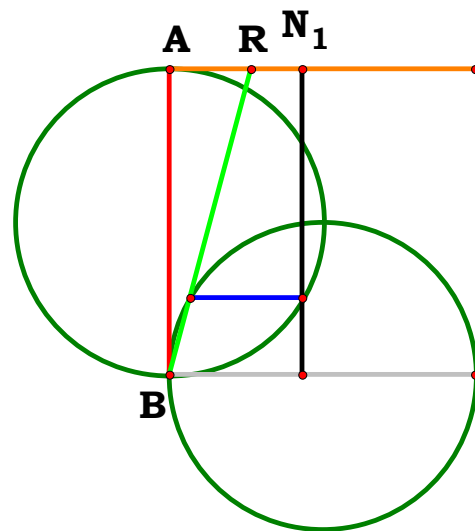
$$\mathbf{R} - \frac{\sqrt{4 \cdot \mathbf{N}^2 + 2} \cdot \sqrt{1 - 4 \cdot \mathbf{N}^2} - 1}{\sqrt{1 - 4 \cdot \mathbf{N}^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$R - \frac{A - \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}}{A - \sqrt{A^2 - 4 \cdot N_u^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{q} - \sqrt{4 \cdot \mathbf{Z}^2 - \mathbf{q}^2} + 2 \cdot \mathbf{q} \cdot \sqrt{\mathbf{q}^2 - 4 \cdot \mathbf{Z}^2}}{\mathbf{q} - \sqrt{\mathbf{q}^2 - 4 \cdot \mathbf{Z}^2}} = 0$$

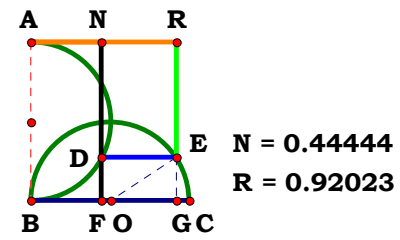


$$N_1 = 0.43333$$

R = 0.26864

$$\frac{1 - \sqrt{(4 \cdot N_1^2 + 2 \cdot \sqrt{1.4 \cdot N_1^2}) - 1}}{1 - \sqrt{1.4 \cdot N_1^2}} \cdot R = 0.00000$$

30BT10CR2



Unit. $AB := 1$ **Given.** $N := .44444$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$

Descriptions.

$$\mathbf{GO} := \frac{\sqrt{4 \cdot \mathbf{N}^2 + 2} \cdot \sqrt{1 - 4 \cdot \mathbf{N}^2 - 1}}{2}$$

$$\mathbf{BG} := \frac{\mathbf{AB}}{2} + \mathbf{GO} \quad \mathbf{R} := \mathbf{BG}$$

R = 0.920234

Definitions.

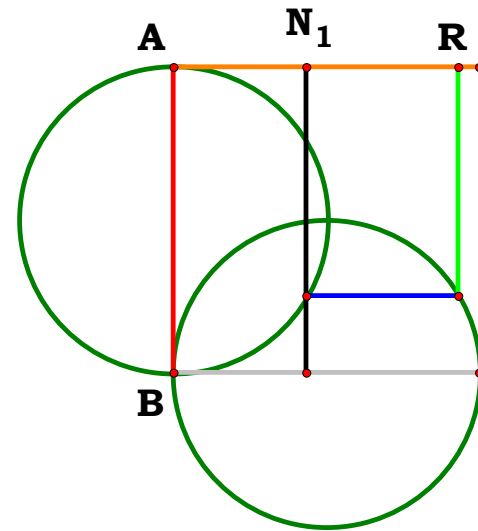
$$R - \frac{1 + \sqrt{4 \cdot N^2 + 2} \cdot \sqrt{1 - 4 \cdot N^2 - 1}}{2} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$R - \frac{A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}}{2 \cdot A} = 0$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{q} + \sqrt{4 \cdot \mathbf{Z}^2 - \mathbf{q}^2} + 2 \cdot \mathbf{q} \cdot \sqrt{\mathbf{q}^2 - 4 \cdot \mathbf{Z}^2}}{2 \cdot \mathbf{q}} = 0$$



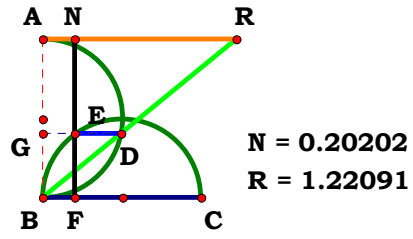
$$N_1 = 0.43333$$

R = 0.93269

$$\frac{1 + \sqrt{(4 \cdot N_1^2 + 2 \cdot \sqrt{1 - 4 \cdot N_1^2})} - 1}{2} \cdot R = 0.00000$$



30BT10CR3



Unit. $\mathbf{AB} := 1$ **Given.** $\mathbf{N} := .20202$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$

Descriptions.

$$\mathbf{BF} := \mathbf{N} \quad \mathbf{CF} := \mathbf{AB} - \mathbf{BF}$$

$$\mathbf{EF} := \sqrt{\mathbf{BF} \cdot \mathbf{CF}} \quad \mathbf{BG} := \mathbf{EF}$$

$$\mathbf{AG} := \mathbf{AB} - \mathbf{BG} \quad \mathbf{DG} := \sqrt{\mathbf{AG} \cdot \mathbf{BG}}$$

$$\mathbf{R} := \frac{\mathbf{DG} \cdot \mathbf{AB}}{\mathbf{BG}} \qquad \mathbf{R} = 1.220908$$

Definitions.

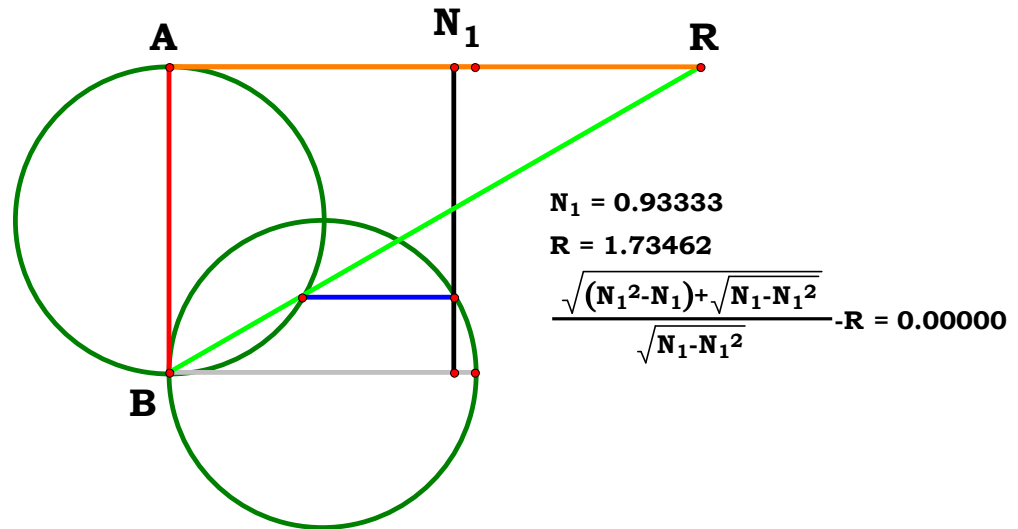
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}^2 - \mathbf{N}} + \sqrt{\mathbf{N} - \mathbf{N}^2}}{\sqrt{\mathbf{N} - \mathbf{N}^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}}{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}} = \mathbf{0}$$

$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

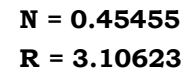
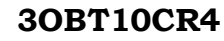
$$\mathbf{R} - \frac{\sqrt{\mathbf{q} \cdot \sqrt{\mathbf{Z} \cdot (\mathbf{q} - \mathbf{Z})} + \mathbf{Z}^2 - \mathbf{Z} \cdot \mathbf{q}}}{\sqrt{\mathbf{Z} \cdot (\mathbf{q} - \mathbf{Z})}} = 0$$



$$N_1 = 0.93333$$

R = 1.73462

$$\frac{\sqrt{(N_1^2 - N_1)} + \sqrt{N_1 - N_1^2}}{\sqrt{N_1 - N_1^2}} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N}} \quad \mathbf{Z} := 20 \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}}$$
$$\mathbf{EJ} := \frac{1 - \sqrt{1 - 4 \cdot \mathbf{N}^2}}{2} \quad \mathbf{OJ} := \frac{\sqrt{4 \cdot \mathbf{N}^2 + 2} \cdot \sqrt{1 - 4 \cdot \mathbf{N}^2} - 1}{2}$$

$$\mathbf{BJ} := \frac{\mathbf{AB}}{2} + \mathbf{OJ} \quad \mathbf{R} := \frac{\mathbf{BJ} \cdot \mathbf{AB}}{\mathbf{EJ}}$$

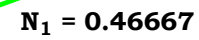
$$\mathbf{R} - \frac{1 + \sqrt{4 \cdot \mathbf{N}^2 + 2 \cdot \sqrt{1 - 4 \cdot \mathbf{N}^2} - 1}}{1 - \sqrt{1 - 4 \cdot \mathbf{N}^2}} = 0$$

$$\mathbf{N} - \frac{\mathbf{N}_u}{\mathbf{A}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_u^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N}_u^2}}{\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_u^2}} = 0$$

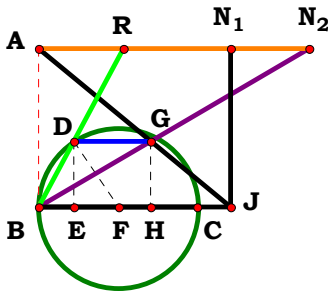
$$\mathbf{N} - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$R - \frac{q + \sqrt{4 \cdot Z^2 - q^2} + 2 \cdot q \cdot \sqrt{q^2 - 4 \cdot Z^2}}{q - \sqrt{q^2 - 4 \cdot Z^2}} = 0$$



R = 2.75754

$$\frac{1 + \sqrt{(4 \cdot N_1^2 + 2 \cdot \sqrt{1 - 4 \cdot N_1^2}) - 1}}{1 - \sqrt{1 - 4 \cdot N_1^2}} \cdot R = 0.00000$$



$$\begin{aligned} N_1 &= 1.21212 \\ N_2 &= 1.70707 \\ R &= 0.53333 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.21212 \quad N_2 := 1.70707$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$BH := \frac{N_2 \cdot N_1}{N_2 + N_1} \quad GH := \frac{BH}{N_2}$$

$$BE := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - GH^2} \quad R := \frac{BE}{GH}$$

$$R = 0.533333$$

Definitions.

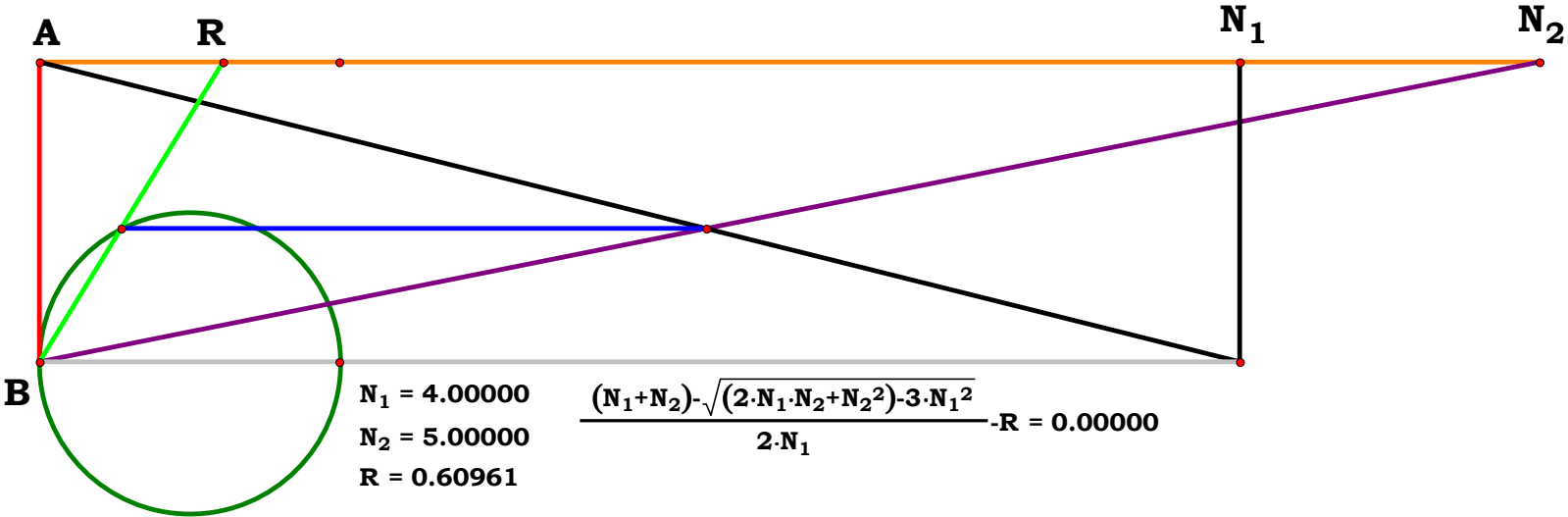
$$R - \frac{N_1 + N_2 - \sqrt{2 \cdot N_1 \cdot N_2 + N_2^2 - 3 \cdot N_1^2}}{2 \cdot N_1} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{A + B - \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{2 \cdot B} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_1 + N_2 - \sqrt{2 \cdot N_1 \cdot N_2 + N_2^2 - 3 \cdot N_1^2}}{2 \cdot N_1} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 5.00000 \\ R &= 0.60961 \end{aligned} \quad \frac{(N_1 + N_2) - \sqrt{(2 \cdot N_1 \cdot N_2 + N_2^2) - 3 \cdot N_1^2}}{2 \cdot N_1} - R = 0.00000$$

30BT11R1

$$\mathbf{BF} := \frac{\mathbf{N}_2 \cdot \mathbf{N}_1}{\mathbf{N}_2 + \mathbf{N}_1} \quad \mathbf{ef} := \sqrt{\mathbf{BF} \cdot (\mathbf{AB} - \mathbf{BF})}$$

$$\mathbf{R} := \frac{\mathbf{BF}}{\mathbf{ef}} \quad \mathbf{R} = 1.407864$$

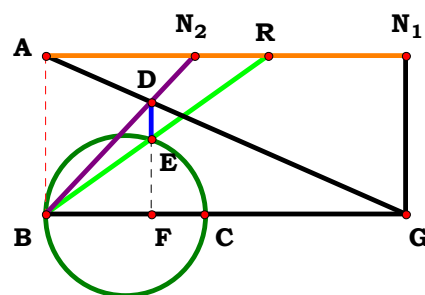
$$R - \frac{N_1 \cdot N_2}{\sqrt{N_1 \cdot N_2 \cdot (N_1 + N_2 - N_1 \cdot N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u}{\sqrt{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_u)}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

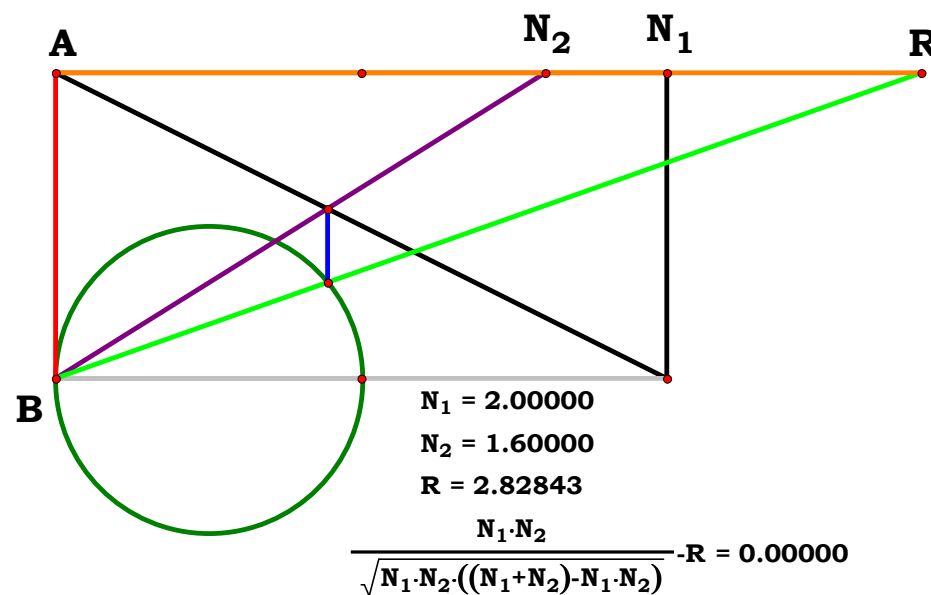
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z}}{\sqrt{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{p})}} = 0$$

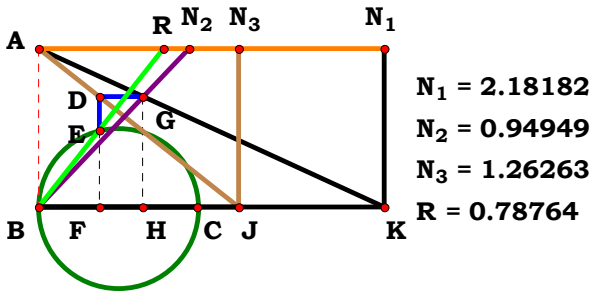


R = 1.40787

Unit. AB := 1 Given. N₁ := 2.27273 N₂ := .93939

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$





Unit. $AB := 1$ Given. $N_1 := 2.18182$ $N_2 := .94949$ $N_3 := 1.26263$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BH := \frac{N_2 \cdot N_1}{N_2 + N_1} \quad GH := \frac{BH}{N_2}$$

$$BF := N_3 - N_3 \cdot GH \quad EF := \sqrt{BF \cdot (AB - BF)}$$

$$R := \frac{BF}{EF} \quad R = 0.787641$$

$$\text{Boolean} := \frac{EF^2 + \sqrt{EF^4}}{2\sqrt{EF^4}}$$

Definitions.

$$\text{Boolean} = 1$$

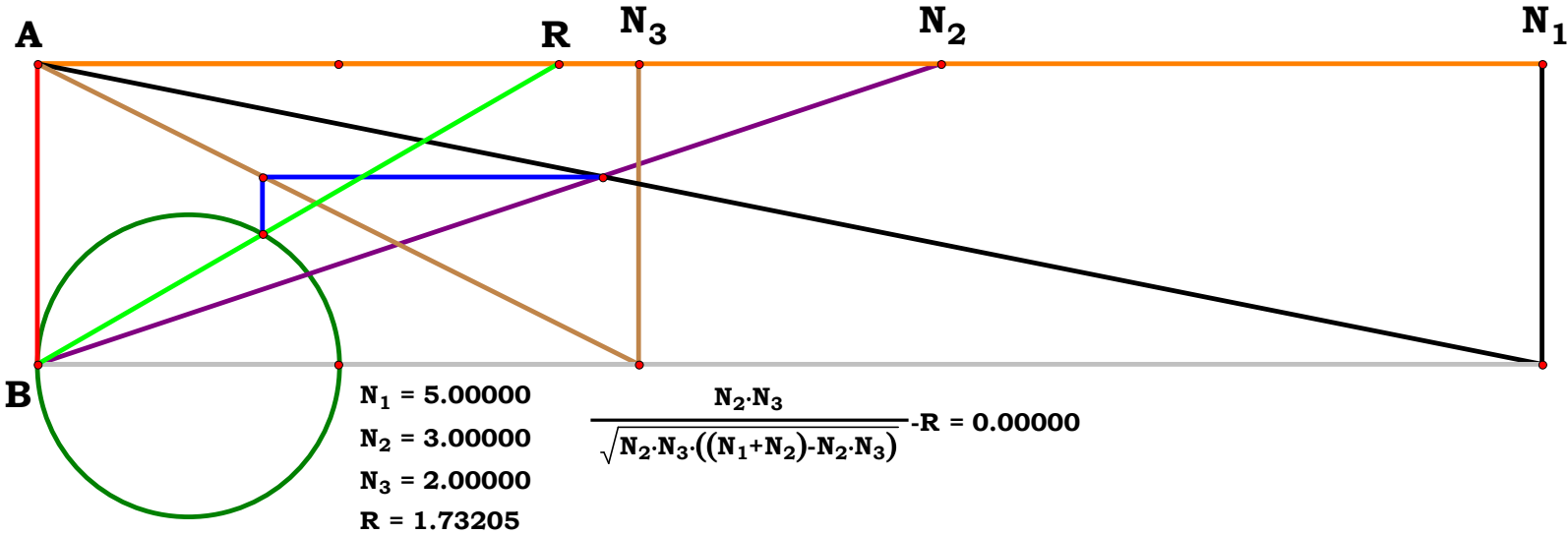
$$R - \frac{N_2 \cdot N_3}{\sqrt{N_2 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

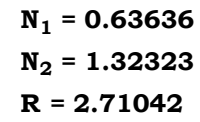
$$R - \frac{\sqrt{A \cdot N_u}}{\sqrt{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot \sqrt{o}}{\sqrt{Y \cdot Z \cdot (X \cdot p \cdot q - Y \cdot Z \cdot o + Y \cdot o \cdot q)}} = 0$$



30BT11R3


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{BE} := \frac{\mathbf{N}_2 \cdot \mathbf{N}_1}{\mathbf{N}_2 + \mathbf{N}_1} \quad \mathbf{DE} := \frac{\mathbf{BE}}{\mathbf{N}_2}$$

$$\mathbf{JC} := \frac{\mathbf{AB}}{2} - \sqrt{\left(\frac{\mathbf{AB}}{2}\right)^2 - \mathbf{DE}^2} \quad \mathbf{BJ} := \mathbf{AB} - \mathbf{JC}$$

$$\mathbf{R} := \frac{\mathbf{BJ}}{\mathbf{DE}} \quad \mathbf{R} = 2.710428$$

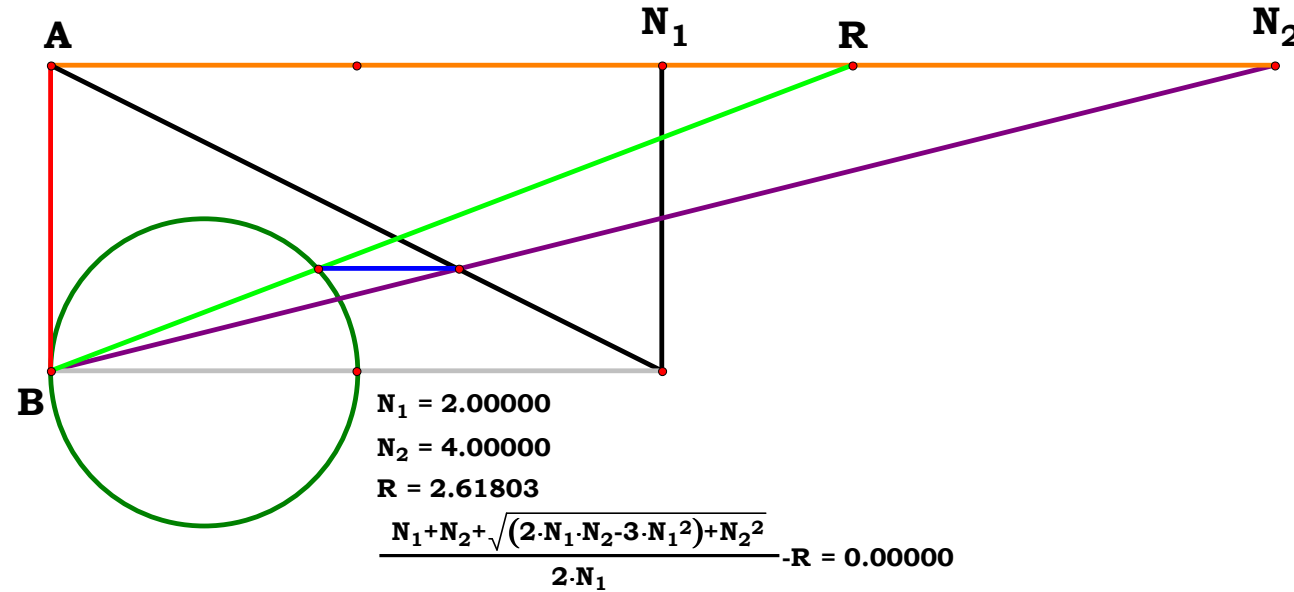
$$R - \frac{N_1 + N_2 + \sqrt{2 \cdot N_1 \cdot N_2 - 3 \cdot N_1^2 + N_2^2}}{2 \cdot N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{2 \cdot B} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p} + \sqrt{2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 3 \cdot \mathbf{Y}^2 \cdot \mathbf{q}^2 + \mathbf{Z}^2 \cdot \mathbf{p}^2}}{2 \cdot \mathbf{Y} \cdot \mathbf{q}} = 0$$


$$N_1 = 2.00000$$

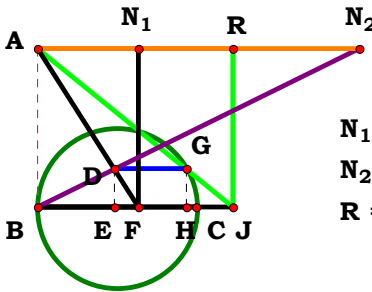
N₂ = 4.00000

R = 2.61803

$$\frac{N_1+N_2+\sqrt{(2\cdot N_1\cdot N_2-3\cdot N_1^2)+N_2^2}}{2\cdot N_1}\cdot R = 0.00000$$



30BT11R4



$N_1 = 0.63636$
 $N_2 = 2.03030$
 $R = 1.23381$

Unit. $AB := 1$ Given. $N_1 := .63636$ $N_2 := 2.03030$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $Y := 20$ $Z := 19$ $p := \frac{Y}{N_1}$ $q := \frac{Z}{N_2}$

Descriptions.

$$BE := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad DE := \frac{BE}{N_2}$$

$$BH := AB - \left[\frac{AB}{2} - \sqrt{\left(\frac{AB}{2} \right)^2 - DE^2} \right] \quad R := \frac{BH}{AB - DE}$$

$R = 1.233809$

Definitions.

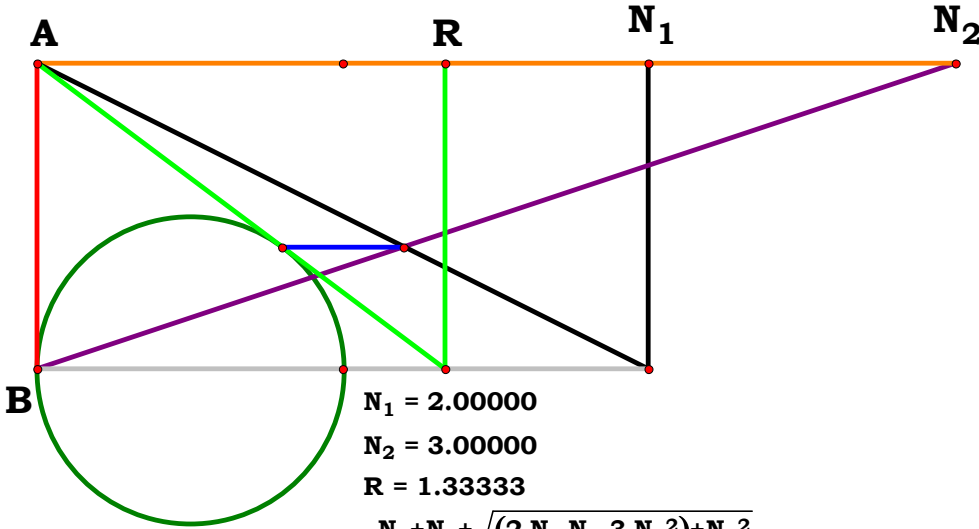
$$R - \frac{N_1 + N_2 + \sqrt{2 \cdot N_1 \cdot N_2 - 3 \cdot N_1^2 + N_2^2}}{2 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{2 \cdot A} = 0$$

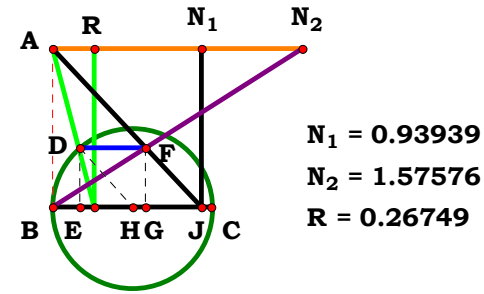
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot q + Z \cdot p + \sqrt{2 \cdot Y \cdot Z \cdot p \cdot q - 3 \cdot Y^2 \cdot q^2 + Z^2 \cdot p^2}}{2 \cdot Z \cdot p} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $R = 1.33333$
 $\frac{N_1 + N_2 + \sqrt{(2 \cdot N_1 \cdot N_2 - 3 \cdot N_1^2) + N_2^2}}{2 \cdot N_2} - R = 0.00000$

30BT11R5



Unit. AB := 1 **Given.** $N_1 := .93939$ $N_2 := 1.57576$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

Descriptions.

$$\mathbf{bg} := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad \mathbf{fg} := \frac{\mathbf{bg}}{N_2}$$

$$\mathbf{be} := \frac{\mathbf{AB}}{2} - \sqrt{\left(\frac{\mathbf{AB}}{2}\right)^2 - \mathbf{fg}^2} \quad \mathbf{R} := \frac{\mathbf{be}}{1 - \mathbf{fg}}$$

R = 0.267482

Definitions.

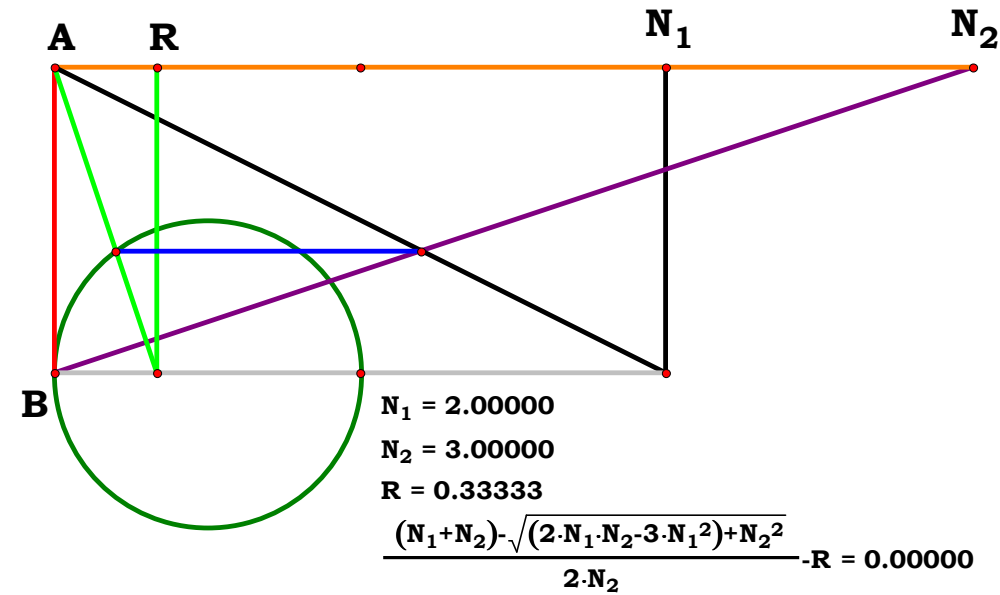
$$R - \frac{N_1 + N_2 - \sqrt{2 \cdot N_1 \cdot N_2 - 3 \cdot N_1^2 + N_2^2}}{2 \cdot N_2} = 0$$

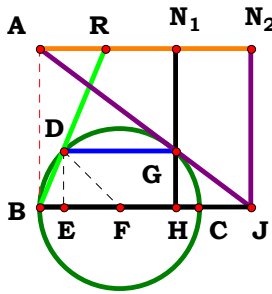
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + B - \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{2 \cdot A} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p} - \sqrt{-3 \cdot \mathbf{Y}^2 \cdot \mathbf{q}^2 + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} + \mathbf{Z}^2 \cdot \mathbf{p}^2}}{2 \cdot \mathbf{Z} \cdot \mathbf{p}} = 0$$





$$\begin{aligned} N_1 &= 0.85859 \\ N_2 &= 1.33333 \\ R &= 0.41839 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .85859 \quad N_2 := 1.33333$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$GH := \frac{N_2 - N_1}{N_2} \quad BE := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - GH^2}$$

$$R := \frac{BE}{GH} \quad R = 0.418381$$

Definitions.

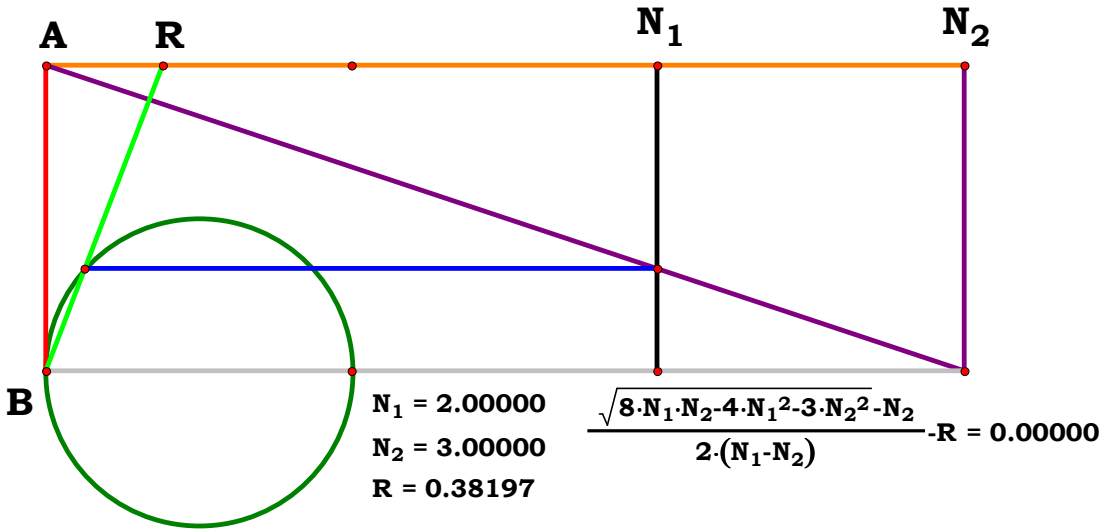
$$R - \frac{\sqrt{8 \cdot N_1 \cdot N_2 - 4 \cdot N_1^2 - 3 \cdot N_2^2} - N_2}{2 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

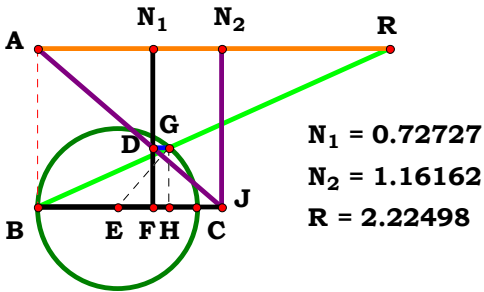
$$R - \frac{A - \sqrt{(2 \cdot B - A) \cdot (3 \cdot A - 2 \cdot B)}}{2 \cdot (A - B)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot p - \sqrt{(Z \cdot p - 2 \cdot Y \cdot q) \cdot (2 \cdot Y \cdot q - 3 \cdot Z \cdot p)}}{2 \cdot (Z \cdot p - Y \cdot q)} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ R &= 0.38197 \end{aligned} \quad \frac{\sqrt{8 \cdot N_1 \cdot N_2 - 4 \cdot N_1^2 - 3 \cdot N_2^2} - N_2}{2 \cdot (N_1 - N_2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .72727$ $N_2 := 1.16162$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

$$\begin{aligned} N_1 &= 0.72727 \\ N_2 &= 1.16162 \\ R &= 2.22498 \end{aligned}$$

Descriptions.

$$DF := 1 - \frac{N_1}{N_2} \quad BH := AB - \frac{AB}{2} + \sqrt{\left(\frac{AB}{2}\right)^2 - DF^2}$$

$$R := \frac{BH}{DF} \quad R = 2.224936$$

Definitions.

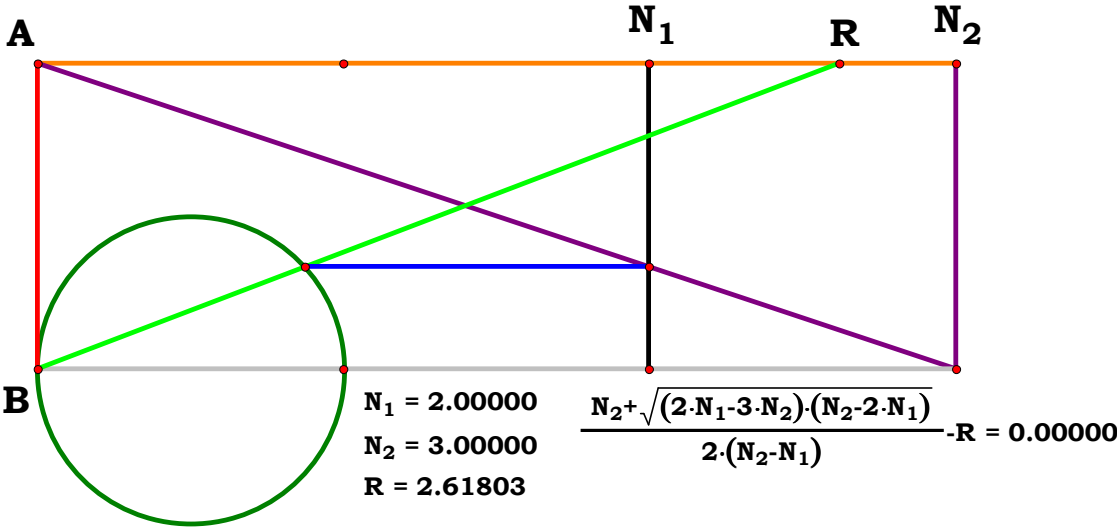
$$R - \frac{N_2 + \sqrt{(2 \cdot N_1 - 3 \cdot N_2) \cdot (N_2 - 2 \cdot N_1)}}{2 \cdot (N_2 - N_1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{A + \sqrt{(2 \cdot B - A) \cdot (3 \cdot A - 2 \cdot B)}}{2 \cdot (A - B)} = 0$$

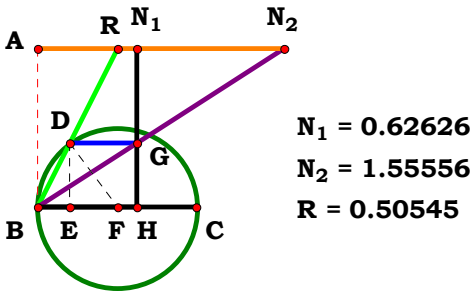
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(Z \cdot p - 2 \cdot Y \cdot q) \cdot (2 \cdot Y \cdot q - 3 \cdot Z \cdot p)} + Z \cdot p}{2 \cdot (Z \cdot p - Y \cdot q)} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ R &= 2.61803 \end{aligned}$$

$$\frac{N_2 + \sqrt{(2 \cdot N_1 - 3 \cdot N_2) \cdot (N_2 - 2 \cdot N_1)}}{2 \cdot (N_2 - N_1)} - R = 0.00000$$



Unit.
AB
:=
1
Given.
N1
:=
.62626
N2
:=
1.55556

Nu
:=
3
A
:=
NuN1
B
:=
NuN2
Y
:=
20
Z
:=
19
p
:=
YN1
q
:=
ZN2

Descriptions.

$$GH := \frac{N_1}{N_2} \quad BE := \frac{AB}{2} - \sqrt{\left(\frac{AB}{2}\right)^2 - GH^2}$$

$$R := \frac{BE}{GH} \quad R = 0.505449$$

Definitions.

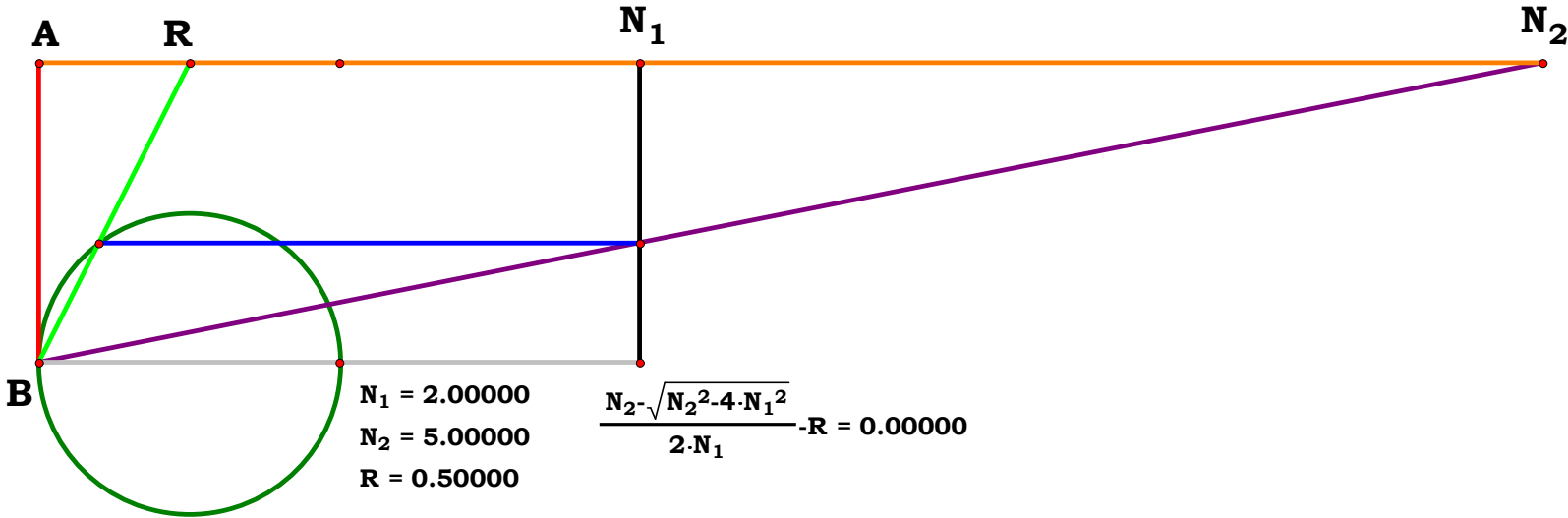
$$R - \frac{N_2 - \sqrt{N_2^2 - 4 \cdot N_1^2}}{2 \cdot N_1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

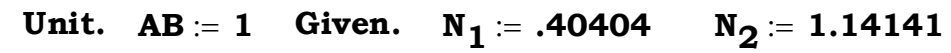
$$R - \frac{A - \sqrt{(A - 2 \cdot B) \cdot (A + 2 \cdot B)}}{2 \cdot B} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot p - \sqrt{Z^2 \cdot p^2 - 4 \cdot Y^2 \cdot q^2}}{2 \cdot Y \cdot q} = 0$$



Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

$$\mathbf{R} := \frac{\mathbf{BH}}{\mathbf{DE}} \quad \mathbf{R} = 2.410066$$

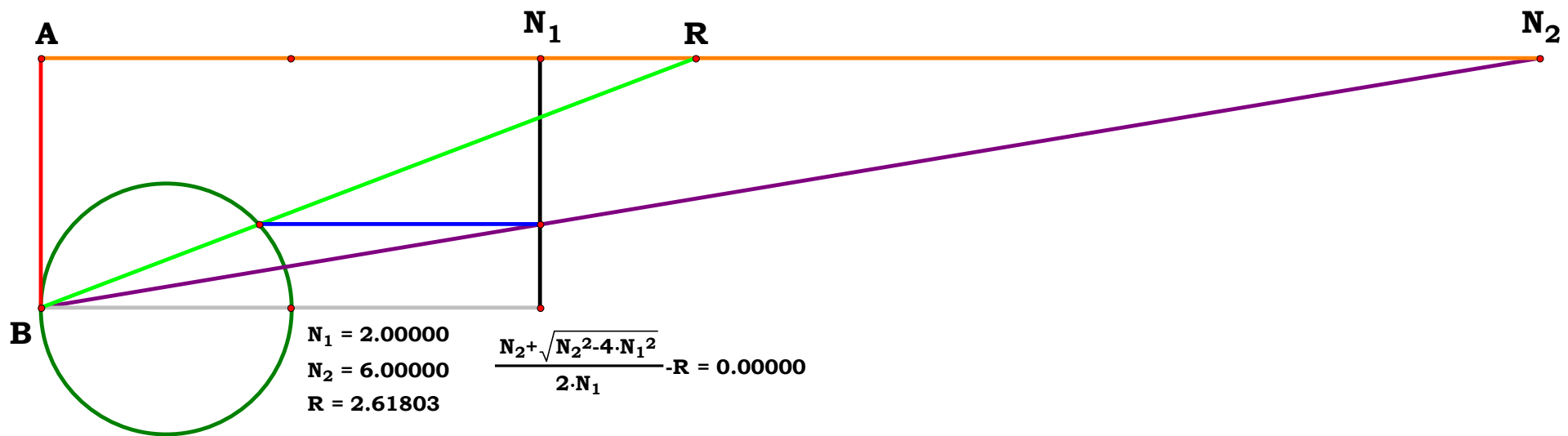
Definitions.

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2}}{2 \cdot \mathbf{B}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot \mathbf{p} + \sqrt{\mathbf{Z}^2 \cdot \mathbf{p}^2 - 4 \cdot \mathbf{Y}^2 \cdot \mathbf{q}^2}}{2 \cdot \mathbf{Y} \cdot \mathbf{q}} = 0$$

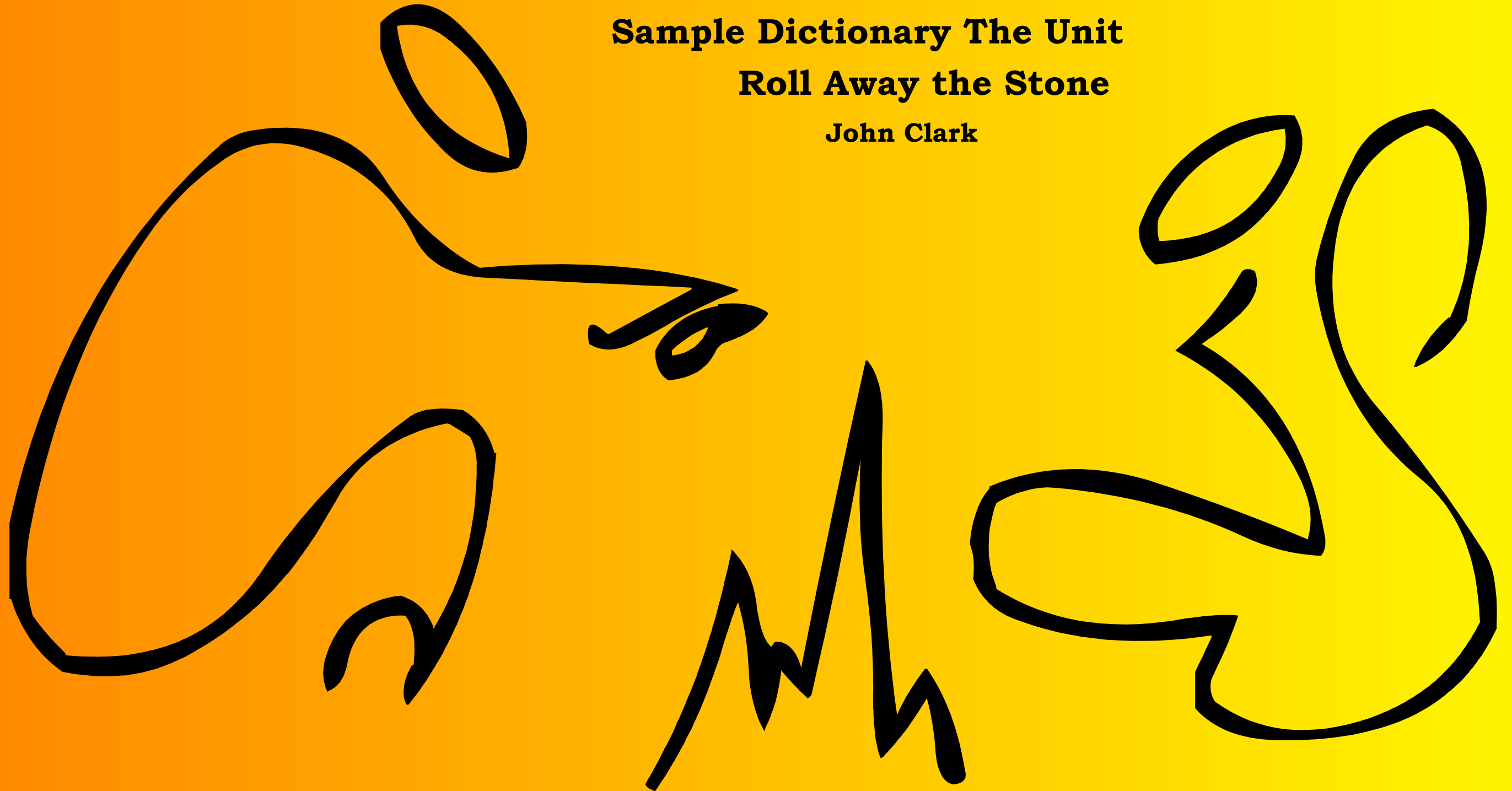


Basic Analog Grammar

Sample Dictionary The Unit

Roll Away the Stone

John Clark

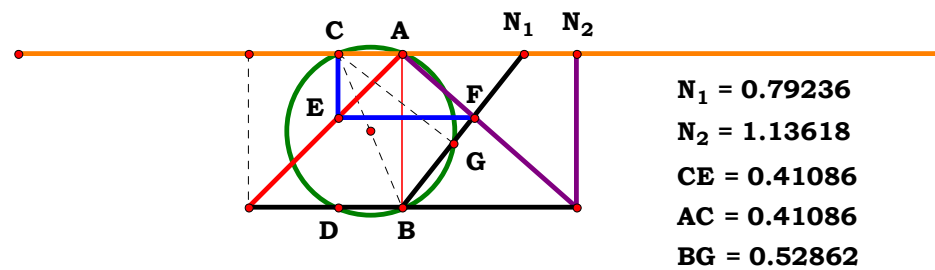


John 312




$$\mathbf{AB} := \mathbf{1}$$

$N_1 := .79236$

$$N_2 := 1.13618$$

$$N_1 = 0.79236$$
$$N_2 = 1.13618$$

CE = 0.41086

AC = 0.41086

BG = 0.52862

$$\text{CE} := \frac{N_1}{N_1 + N_2} \quad \text{AC} := \text{CE}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{GN}_1 := \frac{\mathbf{N}_1 \cdot (\mathbf{N}_1 + \mathbf{AC})}{\mathbf{BN}_1}$$

$$\mathbf{BG} := \mathbf{BN}_1 - \mathbf{GN}_1$$

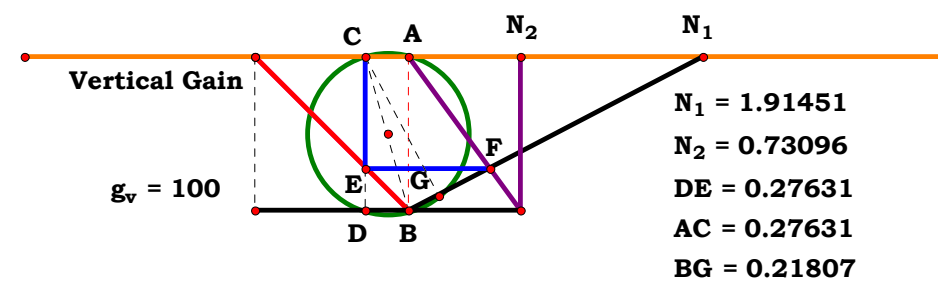
$$\text{CE} - \frac{N_1}{N_1 + N_2} = 0 \quad \text{CE} = 0.41086$$

$$AC - \frac{N_1}{N_1 + N_2} = 0 \quad AC = 0.41086$$

$$\text{BG} - \frac{N_1 - N_1^2 + N_2}{(N_1 + N_2) \cdot \sqrt{N_1^2 + 1}} = 0 \quad \text{BG} = 0.528622$$

Unit.
AB := 1
Given.
N₁ := 1.91451
N₂ := .73096

$$\mathbf{BG} - \frac{\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_2}{(\mathbf{N}_1 + \mathbf{N}_2) \cdot \sqrt{\mathbf{N}_1^2 + 1}} = 0 \quad \mathbf{BG} = 0.218066$$





Unit.
AB := 1
Given.
N₁ := 1.21836
N₂ := 2.26872

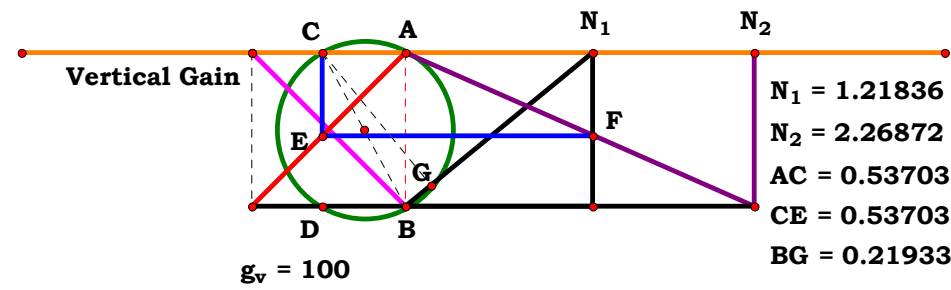
Branch Five.

Descriptions.

$$\begin{aligned} \text{CE} &:= \text{AB} - \frac{N_2 - N_1}{N_2} & \text{AC} &:= \text{CE} \\ \text{BN}_1 &:= \sqrt{\text{AB}^2 + N_1^2} & \text{GN}_1 &:= \frac{N_1 \cdot (N_1 + \text{AC})}{\text{BN}_1} \\ \text{BG} &:= \text{BN}_1 - \text{GN}_1 \end{aligned}$$

Definitions.

$$\begin{aligned} \text{CE} - \frac{N_1}{N_2} &= 0 & \text{CE} &= 0.537025 \\ \text{AC} - \frac{N_1}{N_2} &= 0 & \text{AC} &= 0.537025 \\ \text{BG} - \frac{N_2 - N_1^2}{N_2 \cdot \sqrt{N_1^2 + 1}} &= 0 & \text{BG} &= 0.219331 \end{aligned}$$





Unit.
AB := 1
Given.
N₁ := 1.21836
N₂ := 2.38301

Branch Six.

Descriptions.

$$\text{CE} := \frac{N_2 - N_1}{N_2} \quad \text{AC} := \text{CE}$$

$$\text{BN}_1 := \sqrt{AB^2 + N_1^2} \quad \text{GN}_1 := \frac{N_1 \cdot (N_1 + AC)}{\text{BN}_1}$$

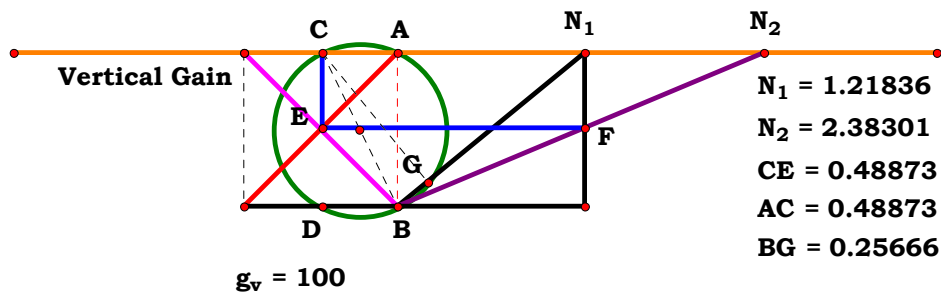
$$\text{BG} := \text{BN}_1 - \text{GN}_1$$

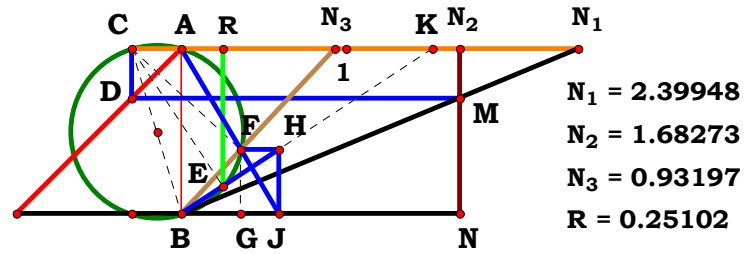
Definitions.

$$\text{CE} - \frac{N_2 - N_1}{N_2} = 0 \quad \text{CE} = 0.488731$$

$$\text{AC} - \frac{N_2 - N_1}{N_2} = 0 \quad \text{AC} = 0.488731$$

$$\text{BG} - \frac{N_1^2 - N_1 \cdot N_2 + N_2}{N_2 \cdot \sqrt{N_1^2 + 1}} = 0 \quad \text{BG} = 0.256662$$





Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.68273$ $N_3 := .93197$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$FN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BF := BN_3 - FN_3 \quad FG := \frac{AB \cdot BF}{BN_3}$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad GJ := \frac{BG \cdot BF}{FN_3} \quad BJ := BG + GJ$$

$$HJ := FG \quad AK := \frac{BJ \cdot AB}{HJ} \quad BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK} \quad BE := BK - EK$$

$$R := \frac{AK \cdot BE}{BK} \quad R = 0.251022$$

Definitions.

$$R - \frac{N_3 \cdot (N_3^2 + 1) \cdot (1 - AC \cdot N_3)}{AC^2 + 2 \cdot AC \cdot N_3 + N_3^4 + 3 \cdot N_3^2 + 1} = 0$$

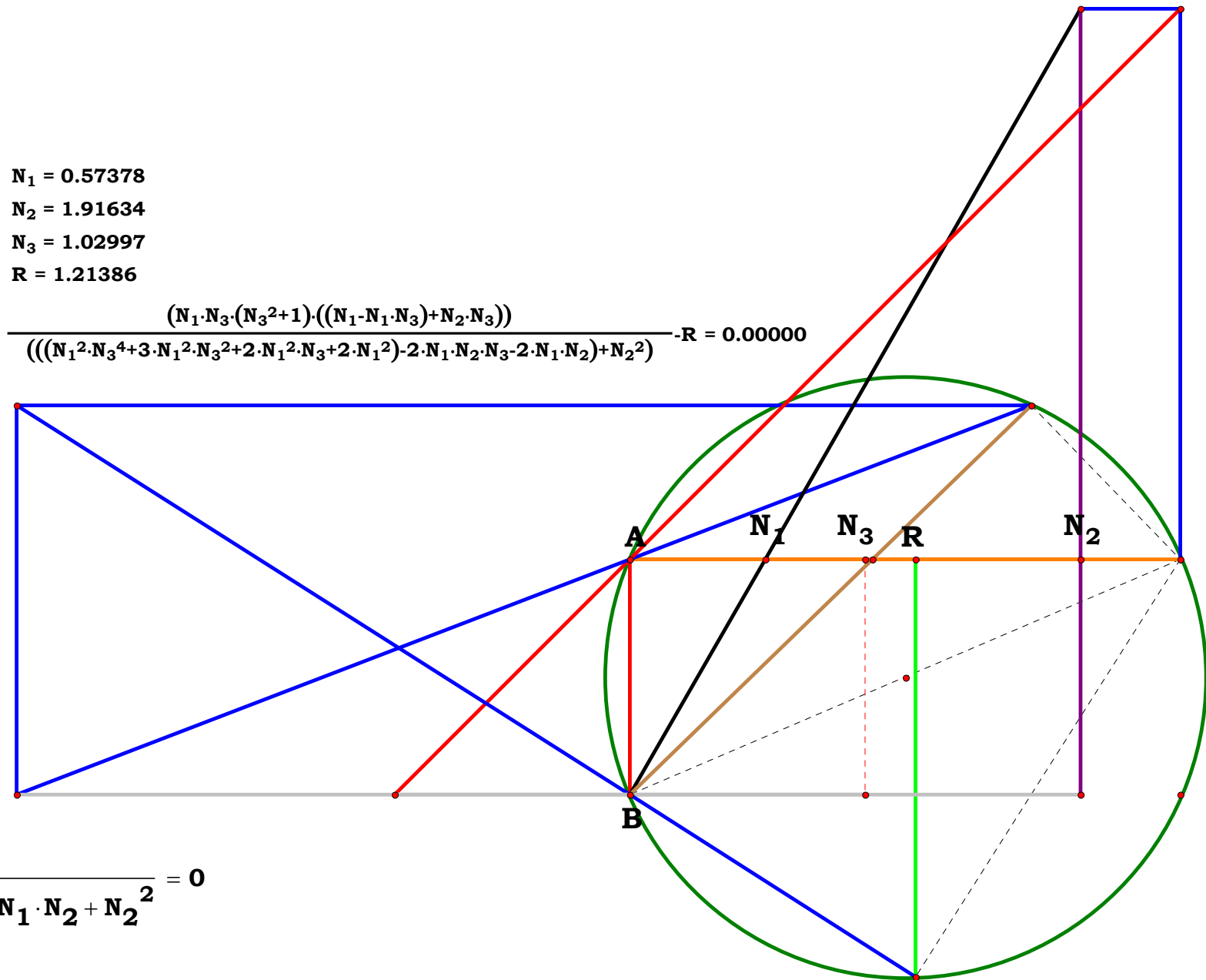
$$R - \frac{N_1 \cdot N_3 \cdot (N_3^2 + 1) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}{N_1^2 \cdot N_3^4 + 3 \cdot N_1^2 \cdot N_3^2 + 2 \cdot N_1^2 \cdot N_3 + 2 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_2 + N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2) \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)}{B^2 \cdot N_u^4 + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot N_u \cdot B \cdot C^3 \cdot (A - B) + C^4 \cdot (A^2 - 2 \cdot A \cdot B + 2 \cdot B^2)} = 0$$

$N_1 = 0.57378$
 $N_2 = 1.91634$
 $N_3 = 1.02997$
 $R = 1.21386$

$$\frac{(N_1 \cdot N_3 \cdot (N_3^2 + 1) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3))}{(((N_1^2 \cdot N_3^4 + 3 \cdot N_1^2 \cdot N_3^2 + 2 \cdot N_1^2 \cdot N_3 + 2 \cdot N_1^2) - 2 \cdot N_1 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_2) + N_2^2)} - R = 0.00000$$





$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) \cdot (\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q})}{\mathbf{X}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{Z}^4 + 3 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 + 2 \cdot \mathbf{Z} \cdot \mathbf{q}^3 + 2 \cdot \mathbf{q}^4) - 2 \cdot \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q}^3 \cdot (\mathbf{Z} + \mathbf{q}) + \mathbf{Y}^2 \cdot \mathbf{o}^2 \cdot \mathbf{q}^4} = 0$$

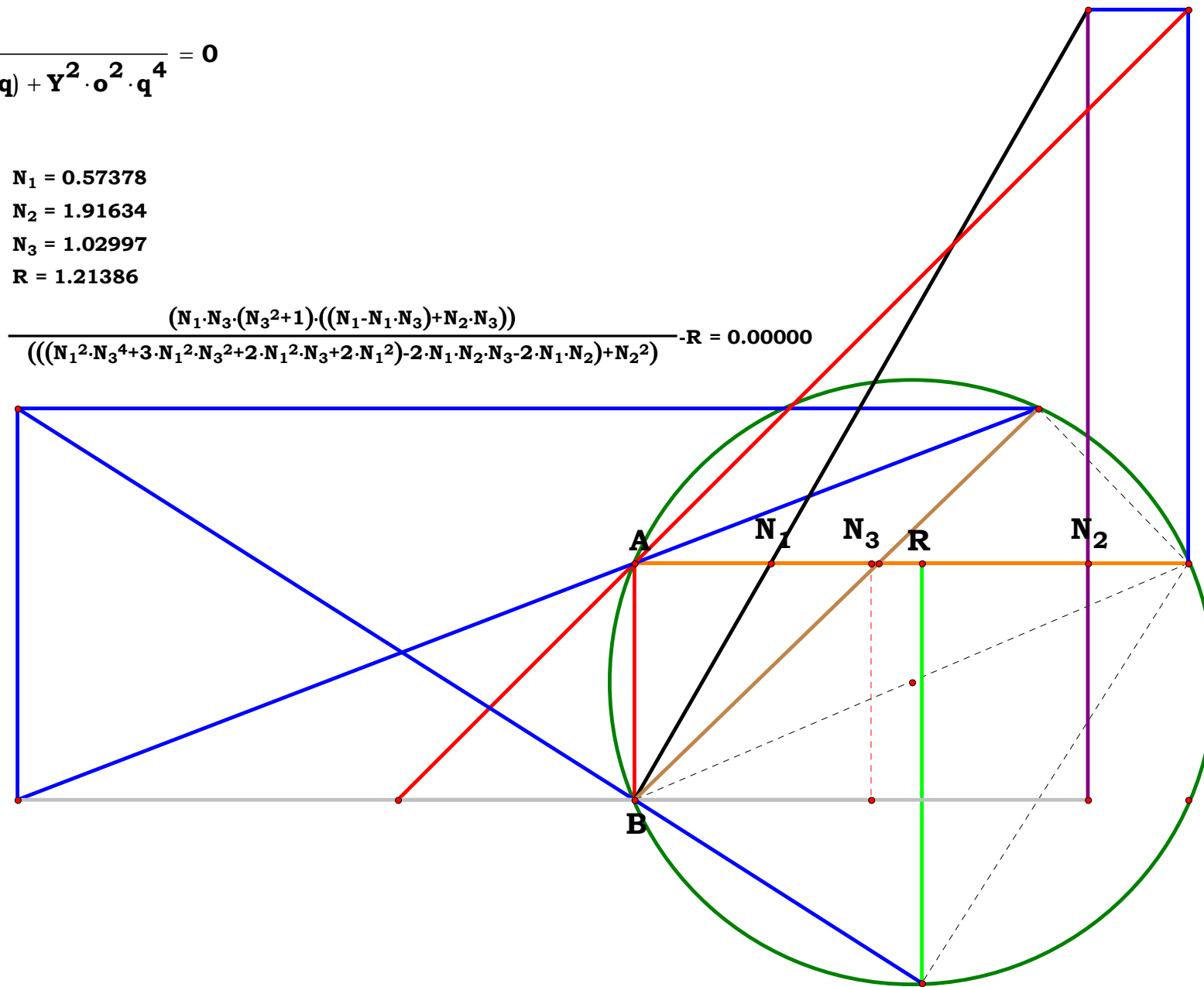
$$N_1 = 0.57378$$

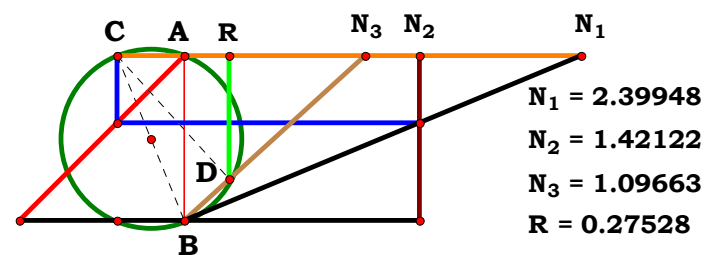
$$N_2 = 1.91634$$

$$N_3 = 1.02997$$

R = 1.21386

$$\frac{(N_1 \cdot N_3 \cdot (N_3^2 + 1) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3))}{(((N_1^2 \cdot N_3^4 + 3 \cdot N_1^2 \cdot N_3^2 + 2 \cdot N_1^2 \cdot N_3 + 2 \cdot N_1^2) \cdot 2 \cdot N_1 \cdot N_2 \cdot N_3 + 2 \cdot N_1 \cdot N_2) + N_2^2)} \cdot R = 0.00000$$





Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.09663$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{DN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{BD} := \mathbf{BN}_3 - \mathbf{DN}_3 \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{BD}}{\mathbf{BN}_3}$$

R = 0.275282

Definitions.

$$R - \frac{N_3 \cdot (1 - AC \cdot N_3)}{N_3^2 + 1} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_1 \cdot \mathbf{N}_3 + \mathbf{N}_2 \cdot \mathbf{N}_3)}{\mathbf{N}_1 \cdot (\mathbf{N}_3^2 + 1)} = \mathbf{0}$$

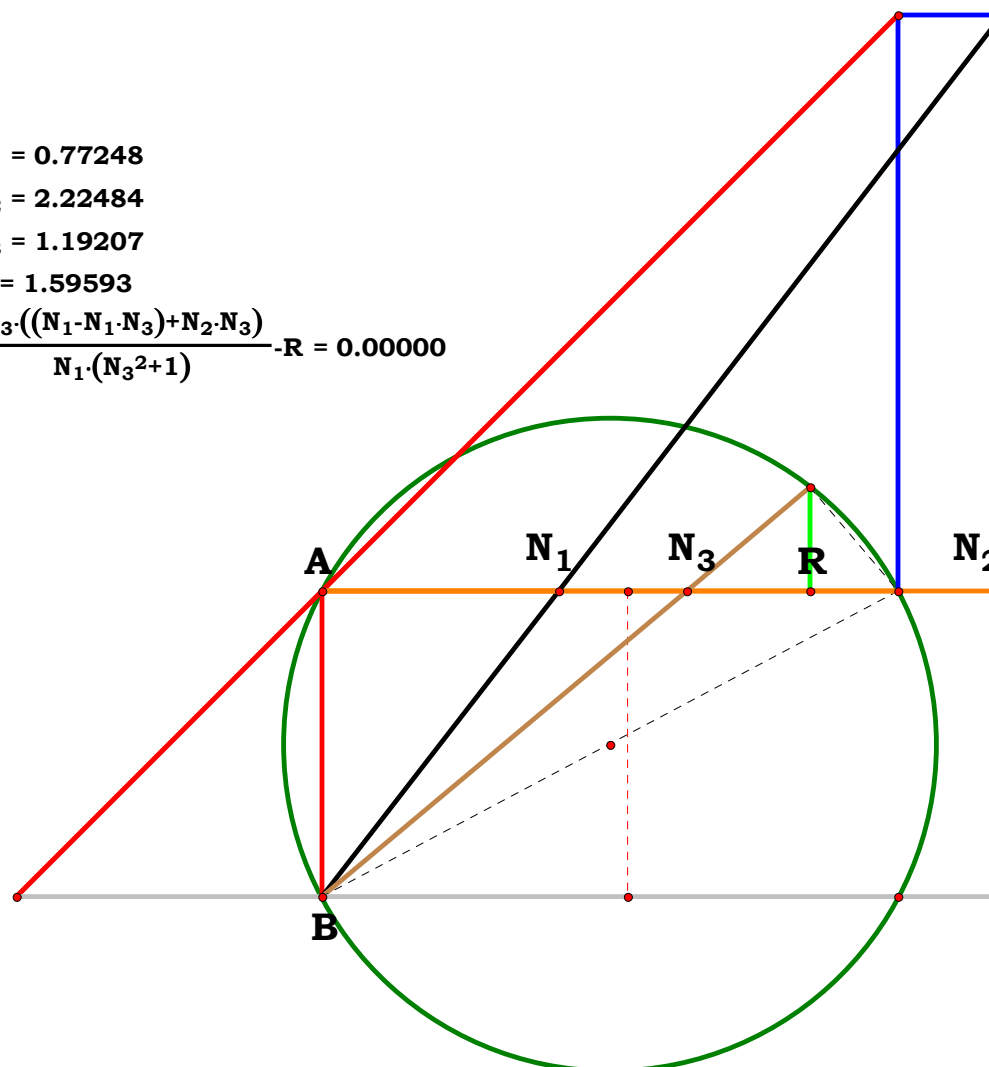
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

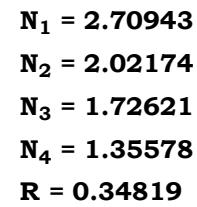
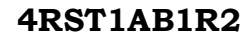
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u - \mathbf{B} \cdot \mathbf{N}_u)}{\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q})}{\mathbf{X} \cdot \mathbf{p} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} = 0$$

$$\begin{aligned} N_1 &= 0.77248 \\ N_2 &= 2.22484 \\ N_3 &= 1.19207 \\ R &= 1.59593 \\ \frac{N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)}{N_1 \cdot (N_3^2 + 1)} \cdot R &= 0.00000 \end{aligned}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{EF} := \mathbf{AB} \cdot \left(\frac{\mathbf{BN}_3 - \mathbf{EN}_3}{\mathbf{BN}_3} \right) \quad \mathbf{AG} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{EF})$$

$$\mathbf{BG} := \sqrt{\mathbf{AG}^2 + \mathbf{AB}^2} \quad \mathbf{CG} := \mathbf{AG} + \mathbf{AC}$$

$$\mathbf{FG} := \frac{\mathbf{AG} \cdot \mathbf{CG}}{\mathbf{BG}} \quad \mathbf{R} := \mathbf{AG} \cdot \left(\frac{\mathbf{BG} - \mathbf{FG}}{\mathbf{BG}} \right)$$

$N_1 = 1.97513$
 $N_2 = 5.53475$
 $N_3 = 1.32279$
 $N_4 = 1.12537$
 $R = -0.12942$

$$\frac{(N_1^2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1)) \cdot ((N_1 - N_2) + N_1 \cdot N_3) - N_3^2 \cdot N_4^2 \cdot (N_1 - N_2) \cdot ((N_1 - N_2) + N_1 \cdot N_3)^2}{(N_1 \cdot N_3^2 \cdot N_4^2 \cdot ((N_1 - N_2) + N_1 \cdot N_3)^2 + N_1^3 \cdot (N_3^2 + 1)^2)} - R = 0.00000$$

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3) \cdot (N_3^2 - N_4 \cdot AC \cdot N_3^2 - N_4 \cdot AC^2 \cdot N_3 + 1)}{AC^2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot AC \cdot N_3^3 \cdot N_4^2 + N_3^4 \cdot N_4^2 + N_3^4 + 2 \cdot N_3^2 + 1} = 0$$

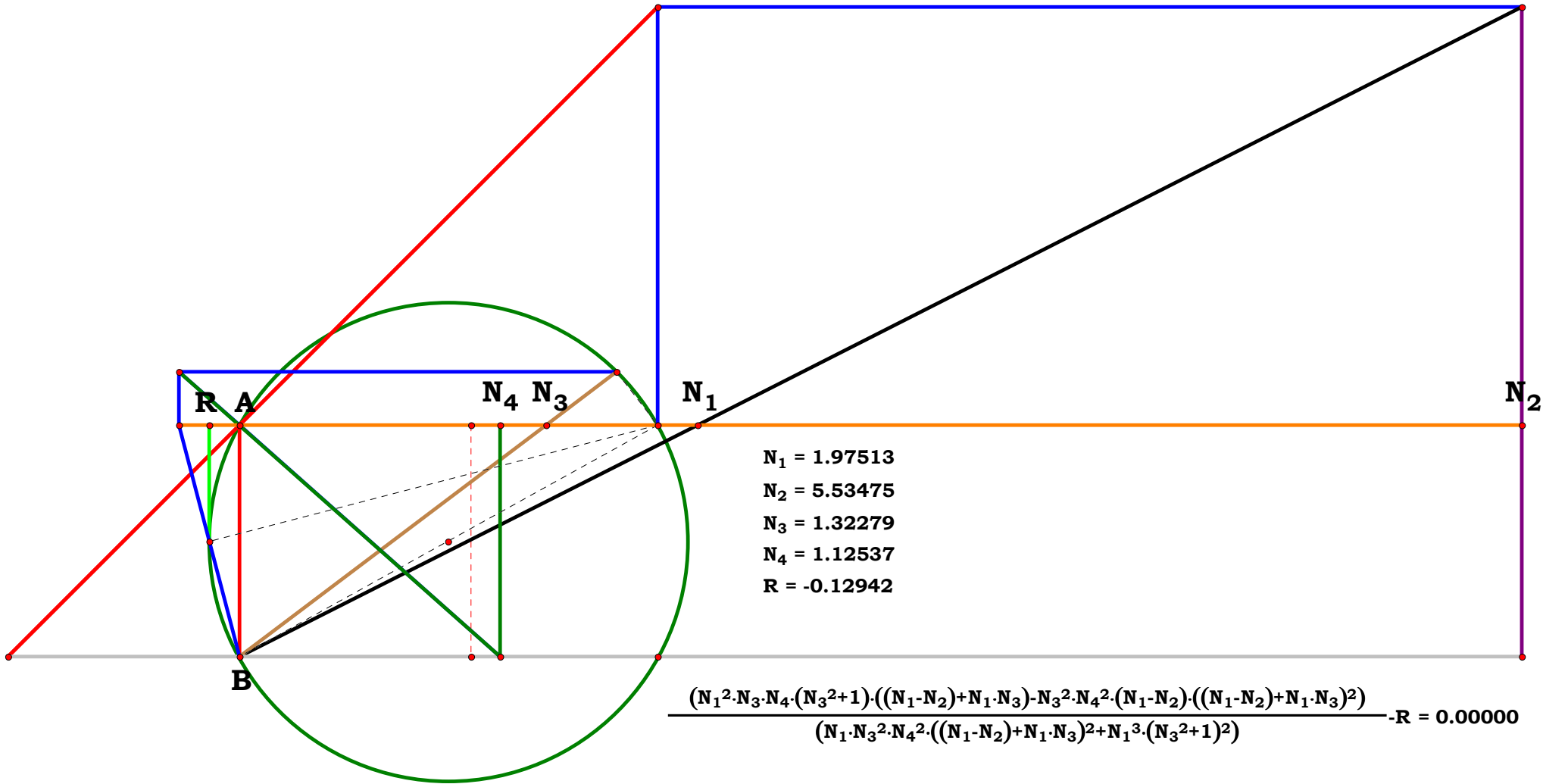
$$\mathbf{R} - \frac{\mathbf{N}_1^2 \cdot \mathbf{N}_3 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_3^2 + 1) \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3) - \mathbf{N}_3^2 \cdot \mathbf{N}_4^2 \cdot (\mathbf{N}_1 - \mathbf{N}_2) \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)^2}{\mathbf{N}_1 \cdot \mathbf{N}_3^2 \cdot \mathbf{N}_4^2 \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)^2 + \mathbf{N}_1^3 \cdot (\mathbf{N}_3^2 + 1)^2} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{N}_u}{\mathbf{D}} = 0$$

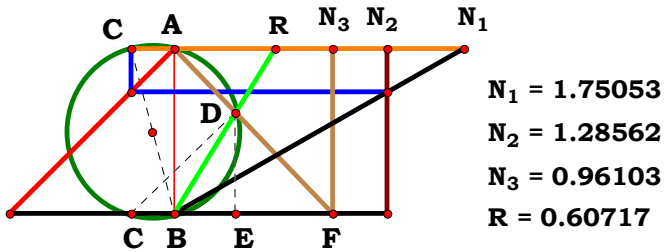
$$R - \frac{N_u^2 \cdot (A \cdot C - B \cdot C - B \cdot N_u) \cdot \left[(B^2 - A \cdot B) \cdot N_u^3 + N_u^2 \cdot [C \cdot (A^2 + B^2) - B^2 \cdot D - 2 \cdot A \cdot B \cdot C] - B^2 \cdot C^2 \cdot D \right]}{B \cdot \left[B^2 \cdot N_u^6 + -2 \cdot N_u^5 \cdot B \cdot C \cdot (A - B) + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) + B^2 \cdot C^2 \cdot D^2 \cdot (C^2 + 2 \cdot N_u^2) \right]} = 0$$



$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot n + W \cdot n \cdot o - X \cdot m \cdot o) \cdot \left[Z \cdot Y \cdot (X \cdot m - W \cdot n) \cdot (W \cdot Y \cdot n + W \cdot n \cdot o - X \cdot m \cdot o) + W^2 \cdot n^2 \cdot p \cdot (Y^2 + o^2) \right]}{n \cdot W \cdot \left[Z^2 \cdot Y^2 \cdot (W \cdot Y \cdot n + W \cdot n \cdot o - X \cdot m \cdot o)^2 + W^2 \cdot n^2 \cdot p^2 \cdot (Y^2 + o^2)^2 \right]} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.28562$ $N_3 := .96103$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$BC := \frac{N_1 - N_2}{N_1} \quad AF := \sqrt{N_3^2 + AB^2}$$

$$CF := N_3 + BC \quad DF := \frac{N_3 \cdot CF}{AF}$$

$$BE := \frac{N_3 \cdot (AF - DF)}{AF} \quad R := \frac{AF \cdot BE}{DF}$$

$$R = 0.607174$$

Definitions.

$$R - \left(\frac{BC^2 + 1}{BC + N_3} - BC \right) = 0$$

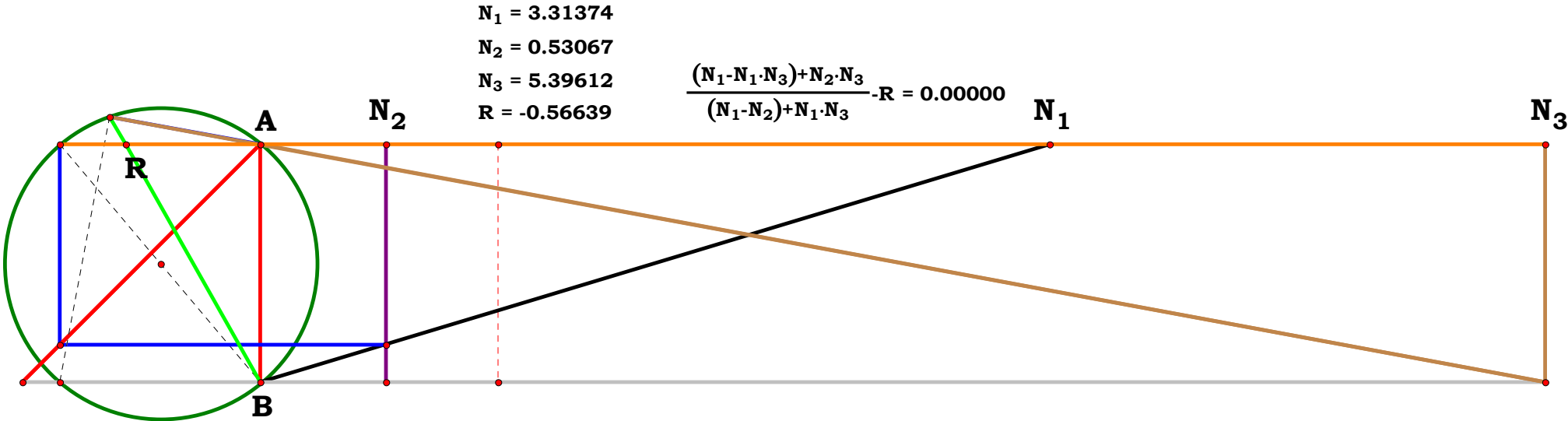
$$R - \frac{N_1 - N_1 \cdot N_3 + N_2 \cdot N_3}{N_1 - N_2 + N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot C + N_u \cdot (A - B)}{C \cdot (B - A) + B \cdot N_u} = 0$$

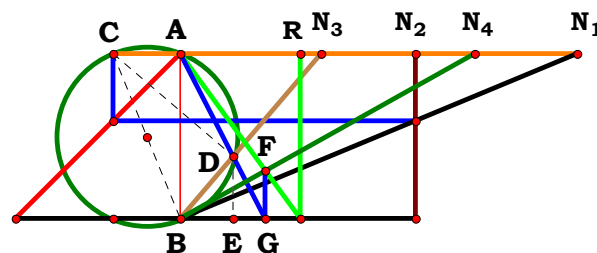
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot o - X \cdot Z \cdot p + X \cdot p \cdot q}{X \cdot Z \cdot p + X \cdot p \cdot q - Y \cdot o \cdot q} = 0$$





4RST1AB1R4



$N_1 = 2.39948$
 $N_2 = 1.42122$
 $N_3 = 0.85448$
 $N_4 = 1.78196$
 $R = 0.72686$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := .85448$ $N_4 := 1.78196$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$BG := \frac{BE \cdot BN_3}{DN_3} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$R := \frac{BG \cdot AB}{AB - FG} \quad R = 0.726866$$

Definitions.

$$R - \frac{N_4 - AC \cdot N_3 \cdot N_4}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

$$R - \frac{N_4 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}{N_1 \cdot N_3 - N_1 + N_1 \cdot N_4 - N_2 \cdot N_3 - N_2 \cdot N_4 + N_1 \cdot N_3 \cdot N_4} = 0$$

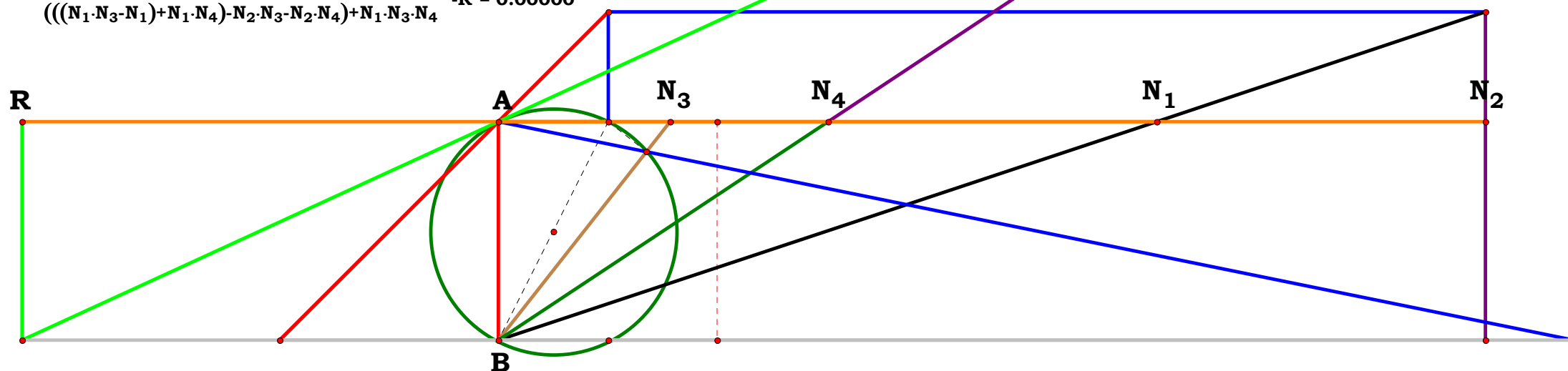
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{B \cdot N_u^2 - N_u \cdot (C + D) \cdot (A - B) - B \cdot C \cdot D} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot m - W \cdot Y \cdot Z \cdot n + W \cdot Z \cdot n \cdot o}{W \cdot n \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p) - X \cdot m \cdot (Y \cdot p + Z \cdot o)} = 0$$

$N_1 = 3.00523$
 $N_2 = 4.50988$
 $N_3 = 0.78421$
 $N_4 = 1.50708$
 $R = -2.17421$

$$\frac{N_4 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)}{(((N_1 \cdot N_3 - N_1) + N_1 \cdot N_4) - N_2 \cdot N_3 - N_2 \cdot N_4) + N_1 \cdot N_3 \cdot N_4} - R = 0.00000$$




$$\mathbf{AC} := \frac{N_1 - N_2}{N_1} \quad \mathbf{CN}_3 := \mathbf{AC} + N_3$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2} \quad \mathbf{DN}_3 := \frac{\mathbf{CN}_3 \cdot \mathbf{N}_3}{\mathbf{BN}_3}$$

$$\mathbf{BD} := \mathbf{BN}_3 - \mathbf{DN}_3 \quad \mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_3}$$

$$\mathbf{R} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{DE}) \quad \mathbf{R} = 1.678466$$

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{N_3^2 + 1} = 0$$

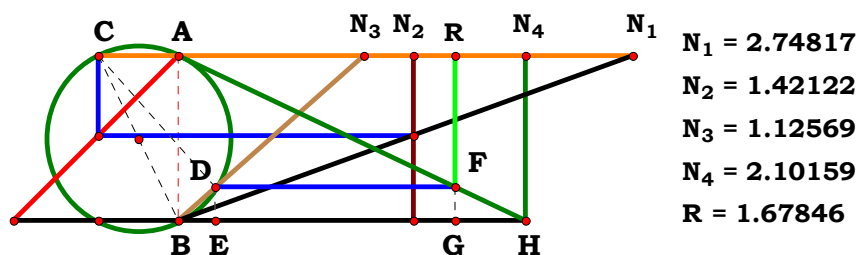
$$\mathbf{R} - \frac{\mathbf{N}_3 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)}{\mathbf{N}_1 \cdot (\mathbf{N}_3^2 + 1)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N_u}^2 \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{N_u}]}{\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})}{\mathbf{p} \cdot \mathbf{W} \cdot \mathbf{n} \cdot (\mathbf{Y}^2 + \mathbf{o}^2)} = 0$$

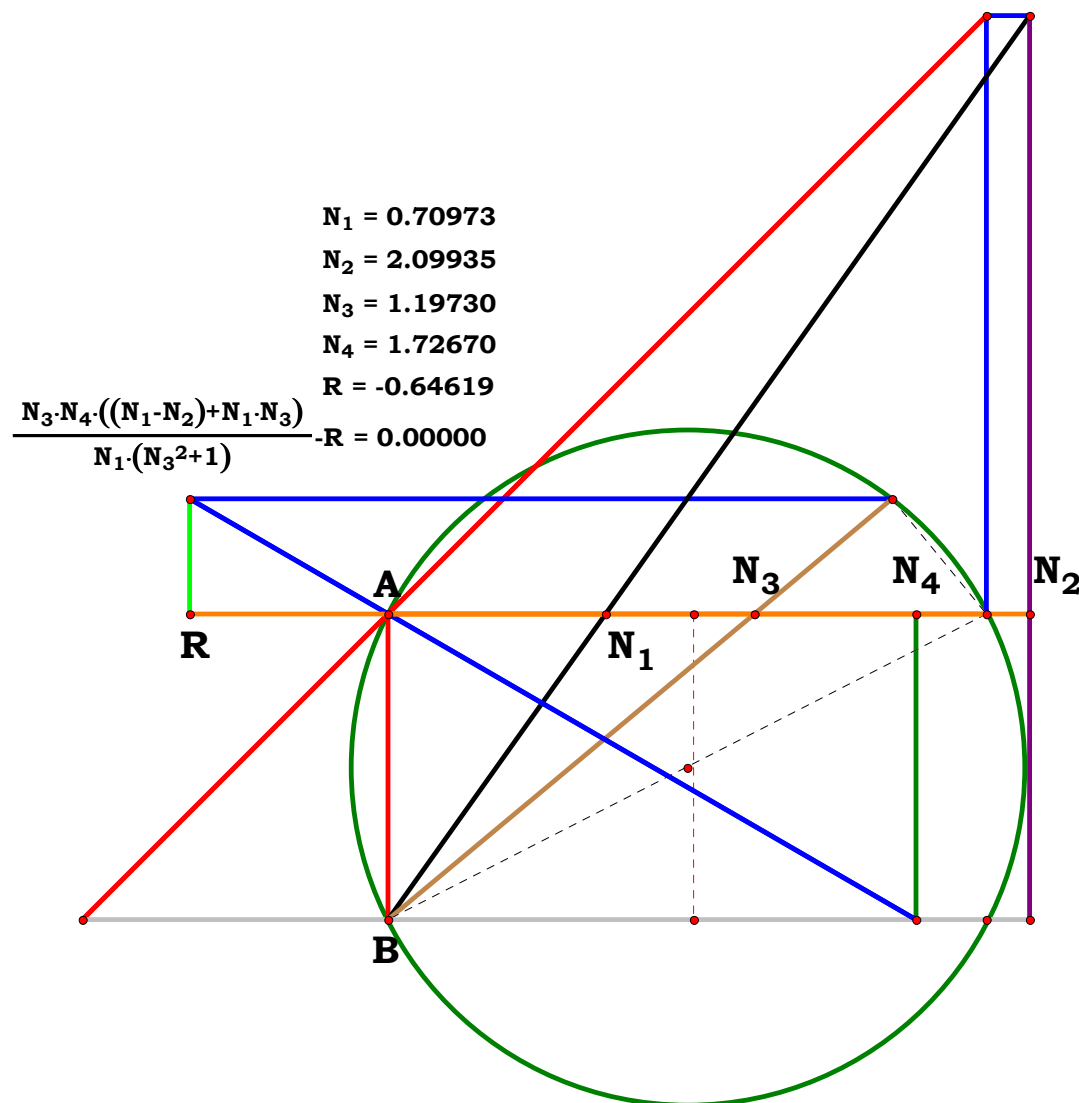


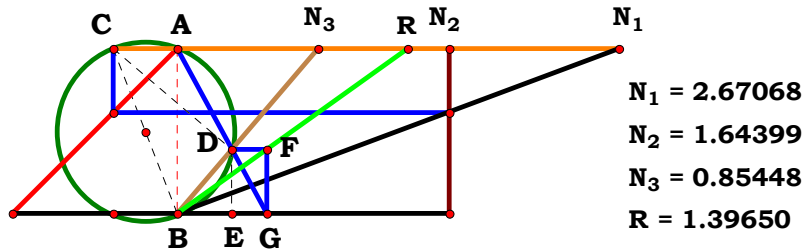
N₁ = 2.74817
N₂ = 1.42122
N₃ = 1.12569
N₄ = 2.10159
R = 1.67846

Unit. AB := 1 Given. $N_1 := 2.74817$ $N_2 := 1.42122$ $N_3 := 1.12569$ $N_4 := 2.10159$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$





Unit. $AB := 1$ Given. $N_1 := 2.67068$ $N_2 := 1.64399$ $N_3 := .85448$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_3 := AC + N_3 \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$DN_3 := \frac{CN_3 \cdot N_3}{BN_3} \quad BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$BE := N_3 \cdot DE \quad BG := \frac{BE \cdot AB}{(AB - DE)} \quad R := \frac{BG \cdot AB}{DE}$$

$$R = 1.396498$$

Definitions.

$$R - \frac{N_3^2 + 1}{AC + N_3} = 0$$

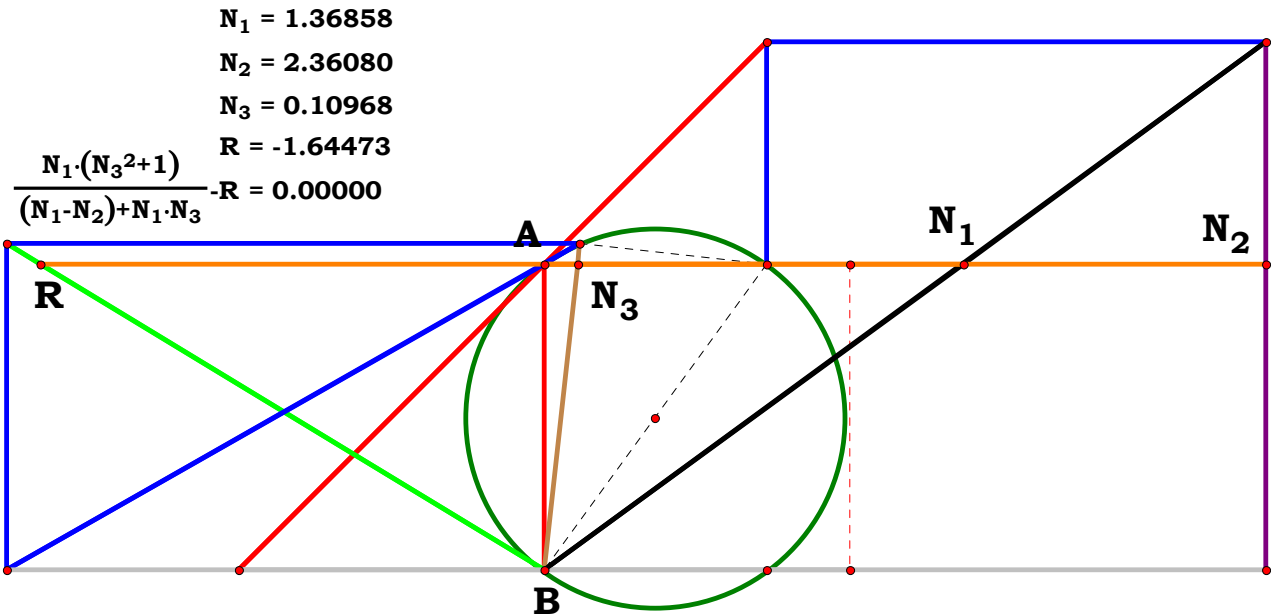
$$R - \frac{N_1 \cdot (N_3^2 + 1)}{N_1 - N_2 + N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot (C^2 + N_u^2)}{C \cdot [C \cdot (B - A) + B \cdot N_u]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot p \cdot (Z^2 + q^2)}{q \cdot (X \cdot Z \cdot p + X \cdot p \cdot q - Y \cdot o \cdot q)} = 0$$





4RST1AB1R7

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$DN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$DE := \frac{AB \cdot BD}{BN_3} \quad BG := \frac{BE \cdot AB}{AB - DE} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$BJ := \frac{BG}{AB - FG} \quad R := \frac{BJ \cdot AB}{DE} \quad R = 3.03638$$

Definitions.

$$R - \frac{N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

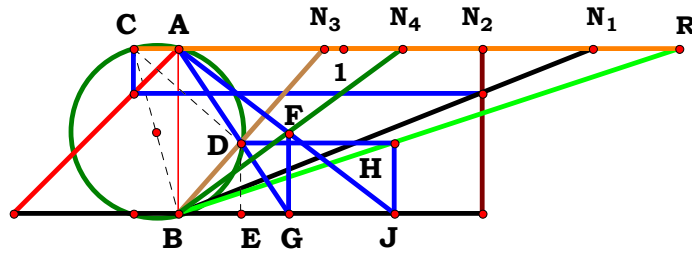
$$R - \frac{N_1 \cdot N_4 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 - N_1 + N_1 \cdot N_4 - N_2 \cdot N_3 - N_2 \cdot N_4 + N_1 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot [B \cdot N_u^2 + N_u \cdot (C + D) \cdot (B - A) - B \cdot C \cdot D]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Z \cdot n \cdot (Y^2 + o^2)}{o \cdot (W \cdot Y \cdot Z \cdot n + W \cdot Y \cdot n \cdot p + W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p - X \cdot Z \cdot m \cdot o - W \cdot n \cdot o \cdot p)} = 0$$

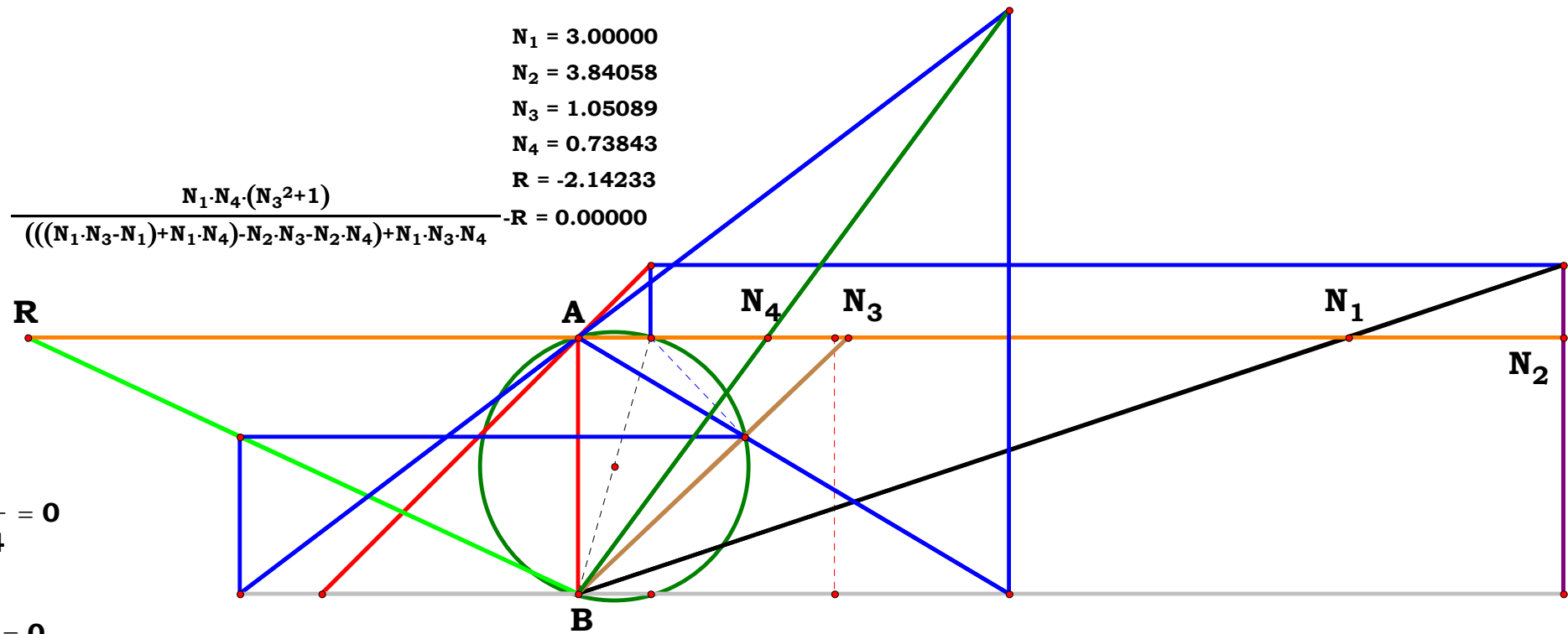


$N_1 = 2.50603$
 $N_2 = 1.83771$
 $N_3 = 0.88354$
 $N_4 = 1.35578$
 $R = 3.03637$

Unit. $AB := 1$ Given. $N_1 := 2.50603$ $N_2 := 1.83771$ $N_3 := .88354$ $N_4 := 1.35578$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

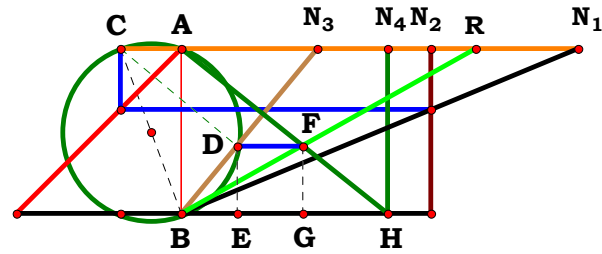


$N_1 = 3.00000$
 $N_2 = 3.84058$
 $N_3 = 1.05089$
 $N_4 = 0.73843$
 $R = -2.14233$
 $-R = 0.00000$

$$\frac{N_1 \cdot N_4 \cdot (N_3^2 + 1)}{(((N_1 \cdot N_3 - N_1) + N_1 \cdot N_4) - N_2 \cdot N_3 - N_2 \cdot N_4) + N_1 \cdot N_3 \cdot N_4} - R = 0.00000$$



4RST1AB1R8



$N_1 = 2.39948$
 $N_2 = 1.50839$
 $N_3 = 0.82543$
 $N_4 = 1.24924$
 $R = 1.77959$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.50839$ $N_3 := .82543$ $N_4 := 1.24924$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad BG := N_4 \cdot (AB - DE)$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.779608$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{(1 - AC \cdot N_3)} = 0$$

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2 + N_1 \cdot N_3)}{N_1 - N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

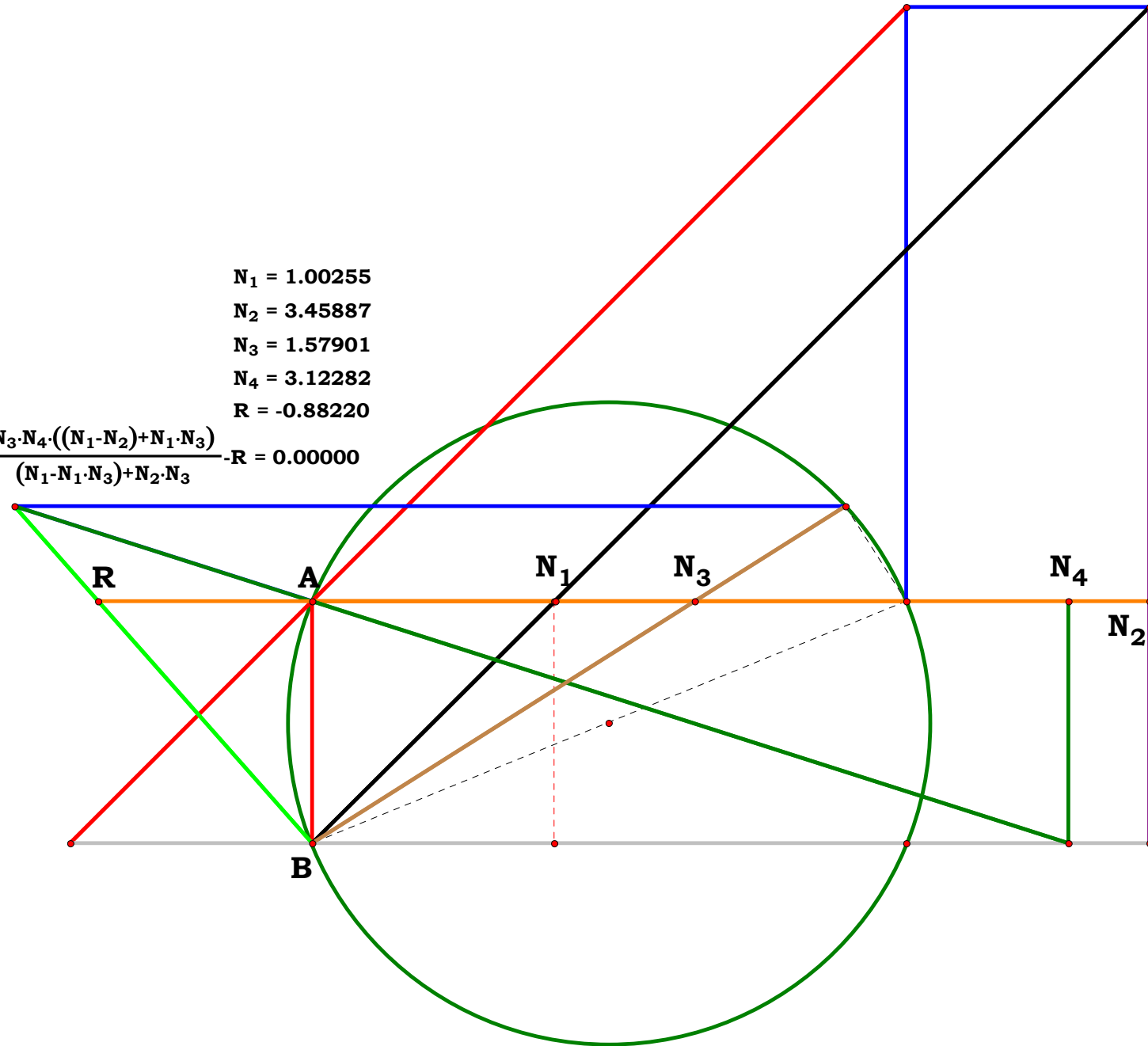
$$R - \frac{N_u^2 \cdot [C \cdot (B - A) + B \cdot N_u]}{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot n + W \cdot n \cdot o - X \cdot m \cdot o)}{o \cdot p \cdot (X \cdot Y \cdot m - W \cdot Y \cdot n + W \cdot n \cdot o)} = 0$$

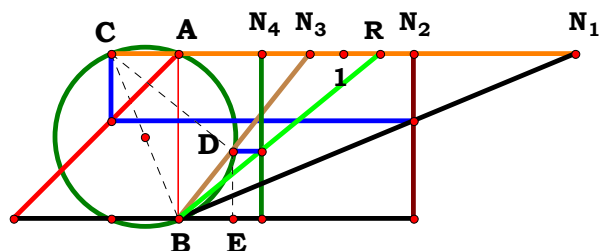
$N_1 = 1.00255$
 $N_2 = 3.45887$
 $N_3 = 1.57901$
 $N_4 = 3.12282$
 $R = -0.88220$

$$\frac{N_3 \cdot N_4 \cdot ((N_1 - N_2) + N_1 \cdot N_3)}{(N_1 - N_1 \cdot N_3) + N_2 \cdot N_3} \cdot R = 0.00000$$





4RST1AB1R9



$N_1 = 2.39948$
 $N_2 = 1.42122$
 $N_3 = 0.79637$
 $N_4 = 0.50343$
 $R = 1.21825$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := .79637$ $N_4 := .50343$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad R := \frac{N_4}{DE}$$

$$R = 1.218244$$

Definitions.

$$R - \frac{-N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 - 1} = 0$$

$$R - \frac{N_1 \cdot N_4 \cdot (N_3^2 + 1)}{N_1 - N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

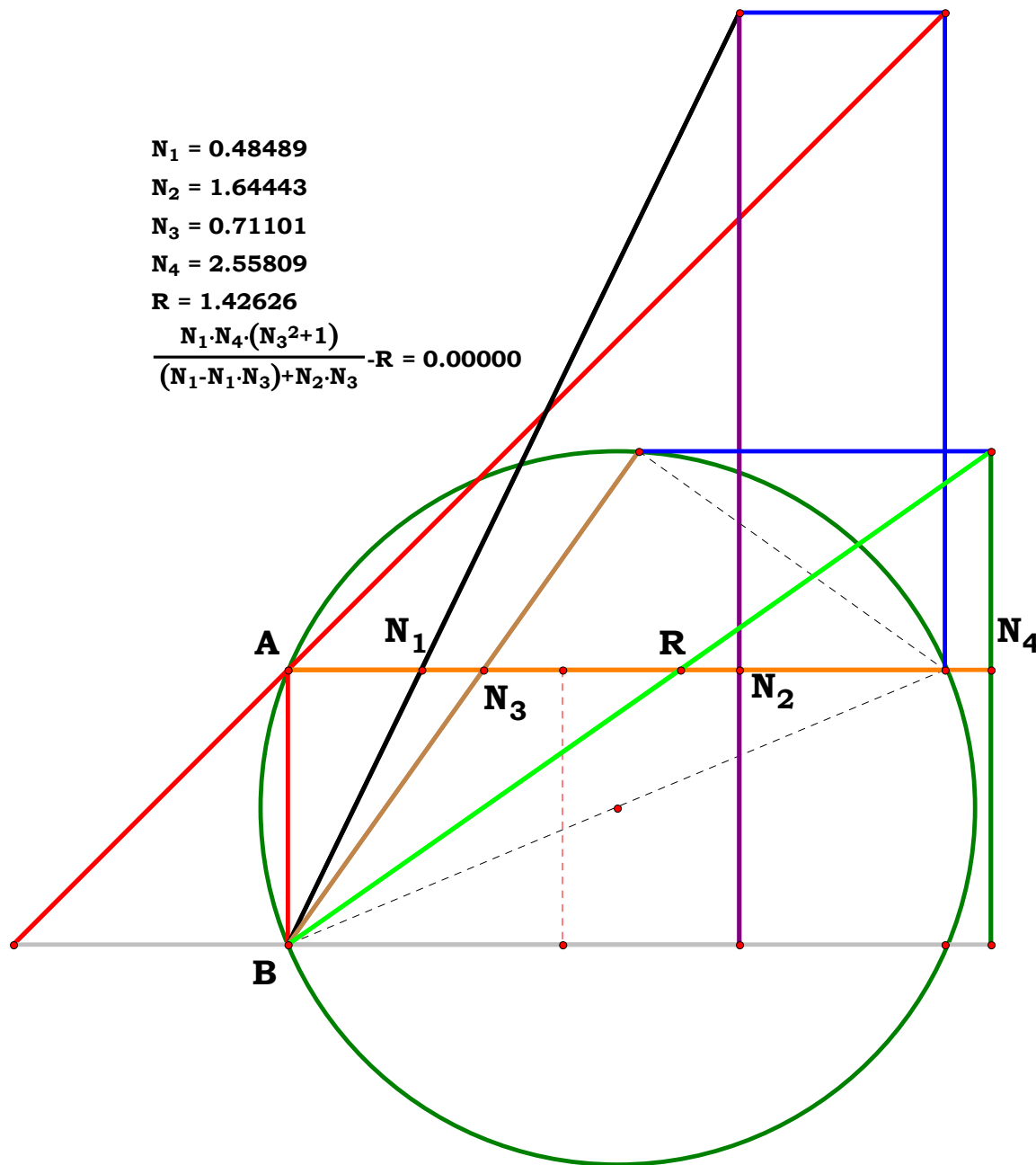
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

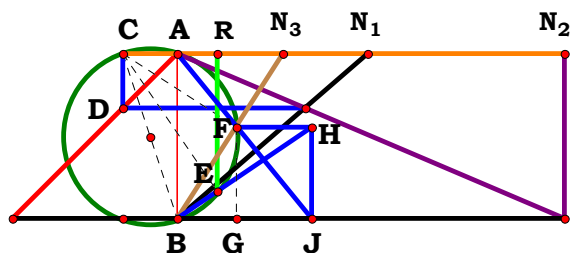
$$R - \frac{W \cdot Z \cdot n \cdot (Y^2 + o^2)}{o \cdot p \cdot (X \cdot Y \cdot m - W \cdot Y \cdot n + W \cdot n \cdot o)} = 0$$

$N_1 = 0.48489$
 $N_2 = 1.64443$
 $N_3 = 0.71101$
 $N_4 = 2.55809$
 $R = 1.42626$
 $\frac{N_1 \cdot N_4 \cdot (N_3^2 + 1)}{(N_1 - N_1 \cdot N_3) + N_2 \cdot N_3} - R = 0.00000$





4RST1AB3R0



$N_1 = 1.15002$
 $N_2 = 2.34137$
 $N_3 = 0.64140$
 $R = 0.24332$

Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := 2.34137$ $N_3 := .64140$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$FN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BF := BN_3 - FN_3 \quad FG := \frac{AB \cdot BF}{BN_3}$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad GJ := \frac{BG \cdot BF}{FN_3} \quad BJ := BG + GJ$$

$$HJ := FG \quad AK := \frac{BJ \cdot AB}{HJ} \quad BK := \sqrt{AK^2 + AB^2} \quad CK := AK + AC$$

$$EK := \frac{AK \cdot CK}{BK} \quad BE := BK - EK \quad R := \frac{AK \cdot BE}{BK} \quad R = 0.24332$$

Definitions.

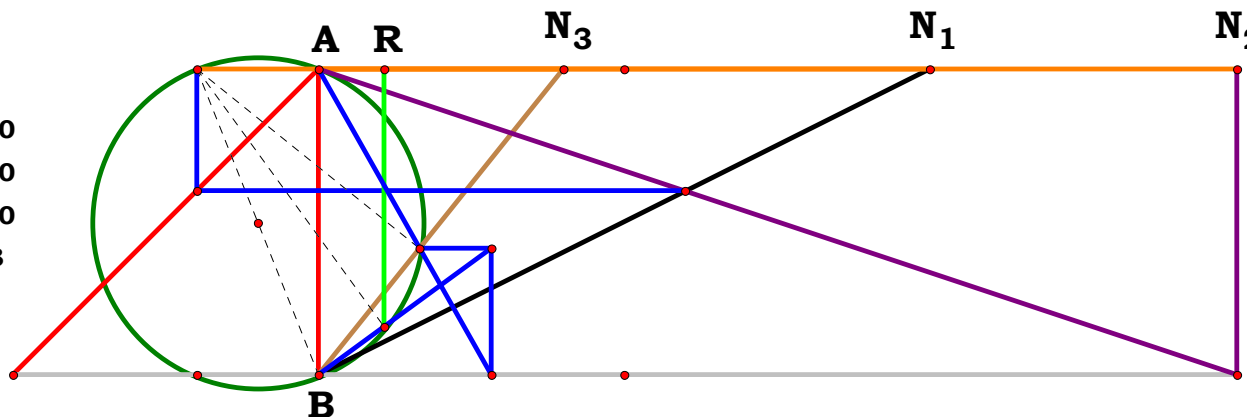
$$R - \frac{N_3 \cdot (N_3^2 + 1) \cdot (1 - AC \cdot N_3)}{AC^2 + 2 \cdot AC \cdot N_3 + N_3^4 + 3 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1 + N_2 - N_1 \cdot N_3)}{N_1^2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 2) + 2 \cdot N_1^2 + 2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 1) + 2 \cdot N_1 \cdot N_2 + N_2^2 \cdot N_3^2 \cdot (N_3^2 + 3) + N_2^2} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{N_u^2 \cdot (3 \cdot C^2 + N_u^2) \cdot (A + B)^2 + 2 \cdot N_u \cdot B \cdot C^3 \cdot (A + B) + C^4 \cdot (A^2 + 2 \cdot A \cdot B + 2 \cdot B^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p + Y \cdot o) \cdot (Z^2 + q^2) \cdot (X \cdot p \cdot q - X \cdot Z \cdot p + Y \cdot o \cdot q)}{Z^4 \cdot (X \cdot p + Y \cdot o)^2 + 3 \cdot Z^2 \cdot q^2 \cdot (X \cdot p + Y \cdot o)^2 + 2 \cdot Z \cdot X \cdot p \cdot q^3 \cdot (X \cdot p + Y \cdot o) + q^4 \cdot (2 \cdot X^2 \cdot p^2 + 2 \cdot X \cdot Y \cdot o \cdot p + Y^2 \cdot o^2)} = 0$$



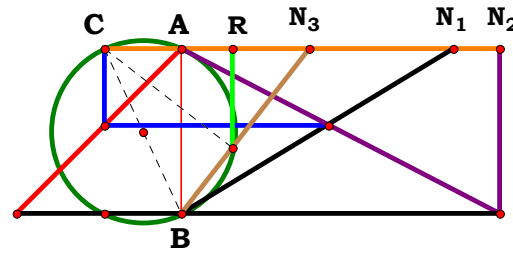
$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.80130$
 $R = 0.21598$

$$\frac{(N_3 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot ((N_1 + N_2) - N_1 \cdot N_3))}{(N_1^2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 2) + 2 \cdot N_1^2 + 2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 1) + 2 \cdot N_1 \cdot N_2 + N_2^2 \cdot N_3^2 \cdot (N_3^2 + 3) + N_2^2)} - R = 0.00000$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$



4RST1AB3R1



$N_1 = 1.64399$
 $N_2 = 1.92488$
 $N_3 = 0.77700$
 $R = 0.31108$

Unit. $AB := 1$ Given. $N_1 := 1.64399$ $N_2 := 1.92488$ $N_3 := .77700$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad R := \frac{N_3 \cdot BD}{BN_3}$$

$R = 0.311084$

Definitions.

$$R - \frac{N_3 \cdot (1 - AC \cdot N_3)}{N_3^2 + 1} = 0$$

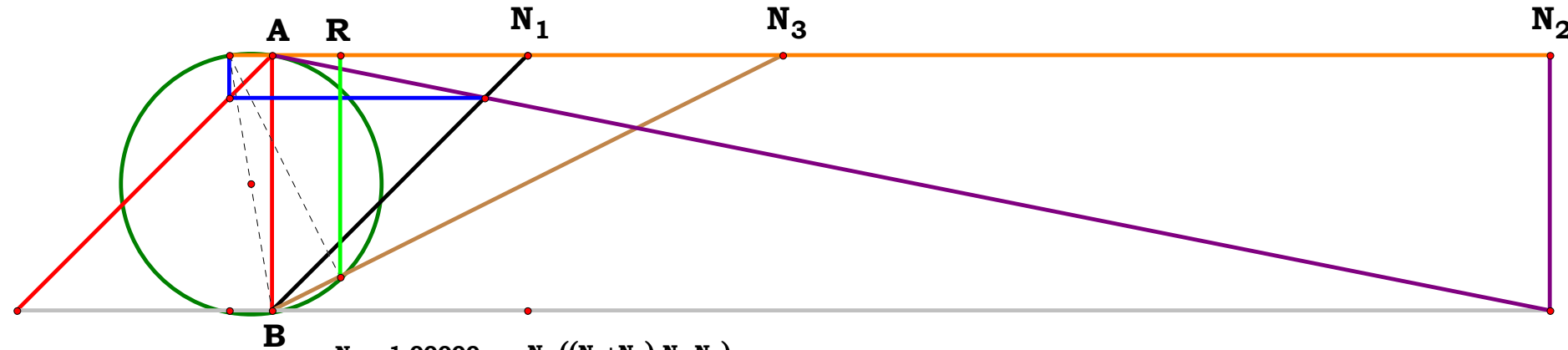
$$R - \frac{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot [C \cdot (A + B) - B \cdot N_u]}{(C^2 + N_u^2) \cdot (A + B)} = 0$$

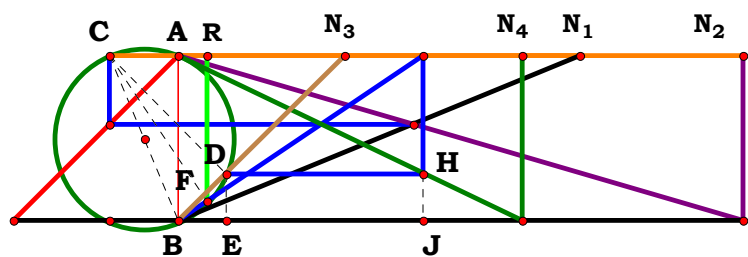
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p \cdot q - X \cdot Z \cdot p + Y \cdot o \cdot q)}{(X \cdot p + Y \cdot o) \cdot (Z^2 + q^2)} = 0$$



$N_1 = 1.00000$
 $N_2 = 5.00000$
 $N_3 = 2.00000$
 $R = 0.26667$

$$\frac{N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$



$N_1 = 2.42854$
 $N_2 = 3.41649$
 $N_3 = 1.00946$
 $N_4 = 2.08221$
 $R = 0.17781$

Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := 3.41649$ $N_3 := 1.00946$ $N_4 := 2.08221$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := AB \cdot \left(\frac{BN_3 - EN_3}{BN_3} \right) \quad AG := N_4 \cdot (AB - EF)$$

$$BG := \sqrt{AG^2 + AB^2} \quad CG := AG + AC$$

$$FG := \frac{AG \cdot CG}{BG} \quad R := AG \cdot \left(\frac{BG - FG}{BG} \right)$$

$R = 0.177813$

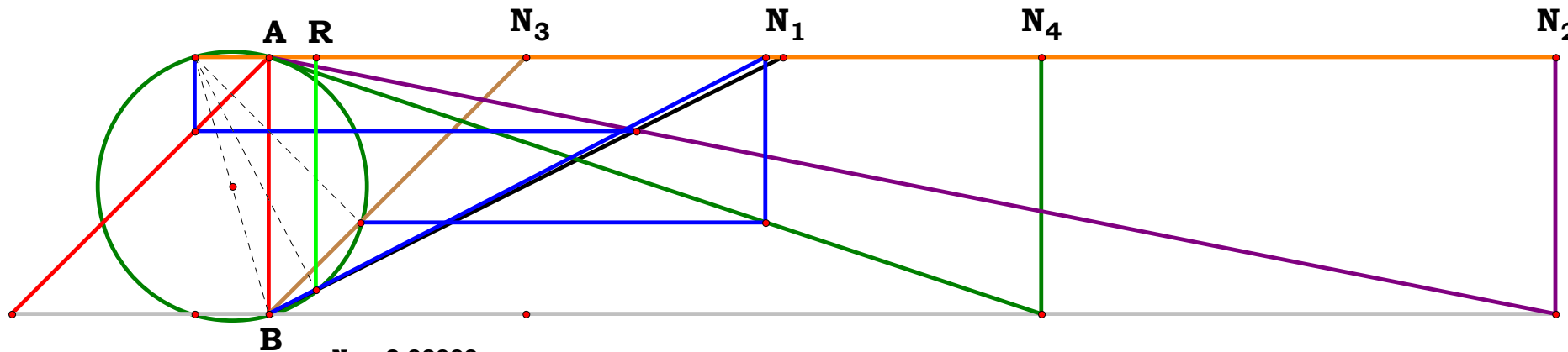
Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3) \cdot (N_3^2 - AC \cdot N_3^2 \cdot N_4 - AC^2 \cdot N_3 \cdot N_4 + 1)}{AC^2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot AC \cdot N_3^3 \cdot N_4^2 + N_3^4 \cdot N_4^2 + N_3^4 + 2 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2}{(N_1 + N_2) \cdot [N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2 + (N_3^2 + 1)^2 \cdot (N_1 + N_2)^2]} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

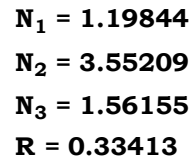
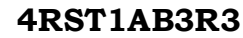
$$R - \frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)] \cdot [D \cdot (C^2 + N_u^2) \cdot (A + B)^2 - [B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u + B \cdot N_u)]]}{(A + B) \cdot [D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 + N_u^4 \cdot (B \cdot C + A \cdot N_u + B \cdot N_u)^2]} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2}{(N_1 + N_2) \cdot [N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2 + (N_3^2 + 1)^2 \cdot (N_1 + N_2)^2]} = 0$$



$N_1 = 2.00000$
 $N_2 = 5.00000$
 $N_3 = 1.00000$
 $N_4 = 3.00000$
 $R = 0.18347$

$$\frac{(N_3 \cdot N_4 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2)}{((N_1 + N_2) \cdot (N_3^2 \cdot N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)^2 + (N_3^2 + 1)^2 \cdot (N_1 + N_2)^2))} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{BC} := \left(\frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \right) \quad \mathbf{AF} := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{BE} := \frac{\mathbf{N}_3 \cdot (\mathbf{AF} - \mathbf{DF})}{\mathbf{AF}} \quad \mathbf{R} := \frac{\mathbf{AF} \cdot \mathbf{BE}}{\mathbf{DF}}$$

N₁ = 2.00000
N₂ = 5.00000
N₃ = 1.00000
R = 0.55556

[illegible]

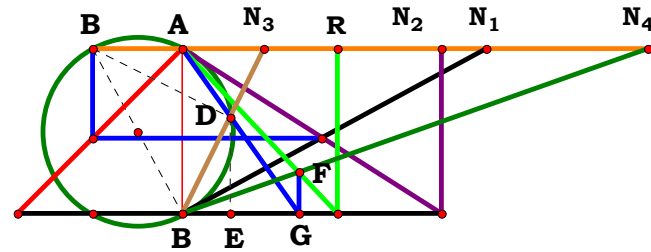
$$R - \frac{N_1 + N_2 - N_1 \cdot N_3}{N_1 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$\mathbf{R} - \frac{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}}{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$



4RST1AB3R4



$N_1 = 1.83771$
 $N_2 = 1.56650$
 $N_3 = 0.49611$
 $N_4 = 2.81833$
 $R = 0.94335$

Unit. $AB := 1$ Given. $N_1 := 1.83771$ $N_2 := 1.56650$ $N_3 := .49611$ $N_4 := 2.81833$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$BG := \frac{BE \cdot BN_3}{DN_3} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$R := \frac{BG \cdot AB}{AB - FG} \quad R = 0.94335$$

Definitions.

$$R - \frac{N_4 - AC \cdot N_3 \cdot N_4}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

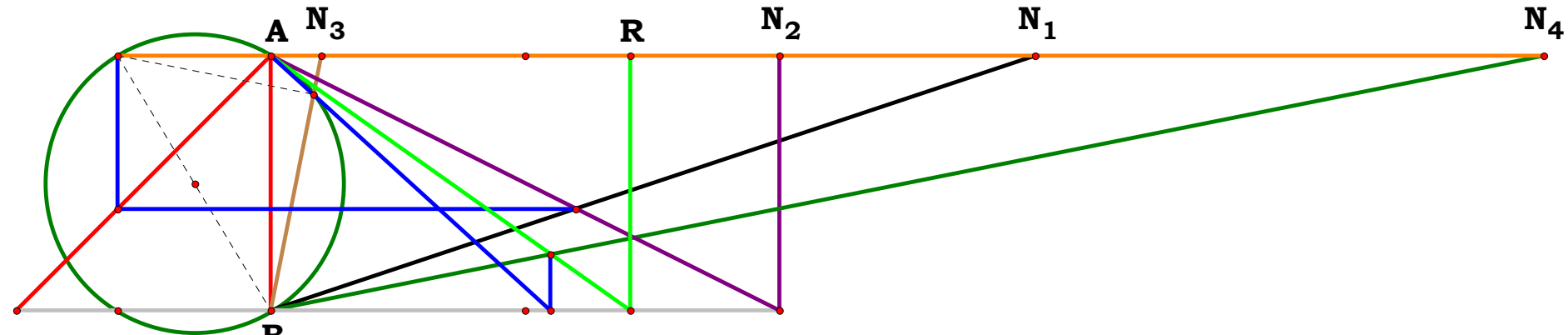
$$R - \frac{N_4 \cdot (N_1 + N_2 - N_1 \cdot N_3)}{N_1 \cdot N_3 - N_2 - N_1 + N_1 \cdot N_4 + N_1 \cdot N_3 \cdot N_4 + N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{(A + B) \cdot N_u^2 + N_u \cdot B \cdot (C + D) - [C \cdot D \cdot (A + B)]} = 0$$

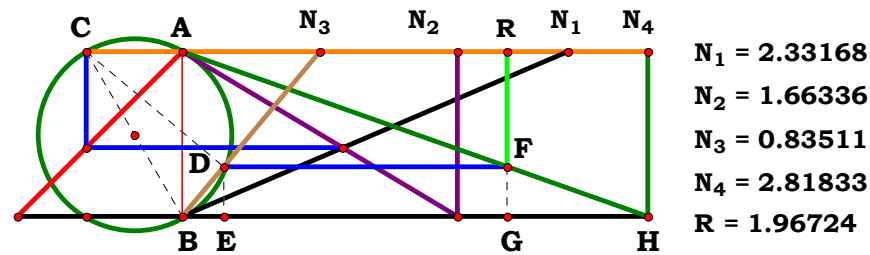
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{A \cdot X \cdot Z \cdot o - N_u \cdot Y \cdot Z \cdot n + N_u \cdot Z \cdot n \cdot o}{A \cdot X \cdot (Y \cdot Z - o \cdot p) + N_u \cdot n \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.20000$
 $N_4 = 5.00000$
 $R = 1.41026$

$$\frac{N_4 \cdot ((N_1 + N_2) - N_1 \cdot N_3)}{(N_1 \cdot N_3 - N_2 - N_1) + N_1 \cdot N_4 + N_1 \cdot N_3 \cdot N_4 + N_2 \cdot N_3 \cdot N_4} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.33168$ $N_2 := 1.66336$ $N_3 := .83511$ $N_4 := 2.81833$

$$N_u := 3A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$R := N_4 \cdot (AB - DE) \quad R = 1.967234$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{N_3^2 + 1} = 0$$

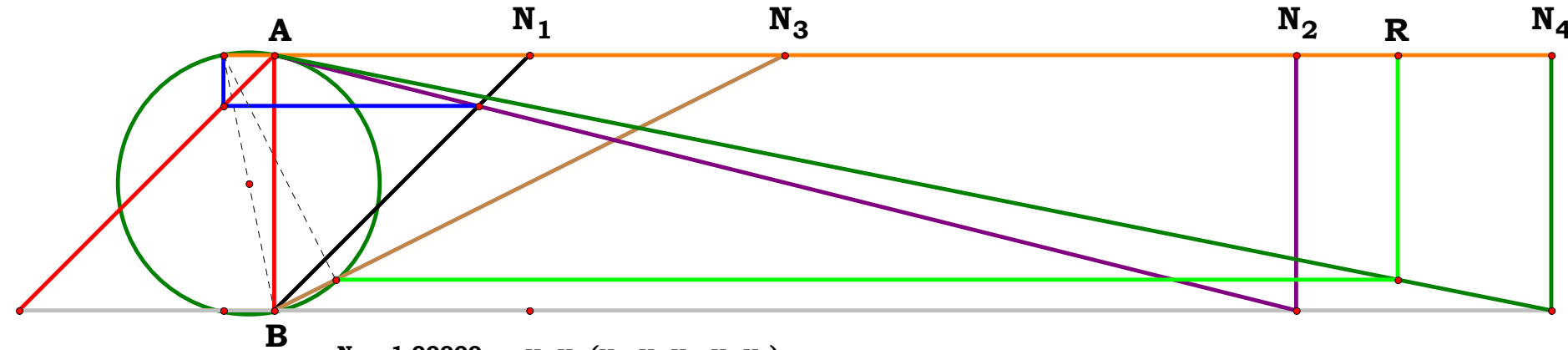
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

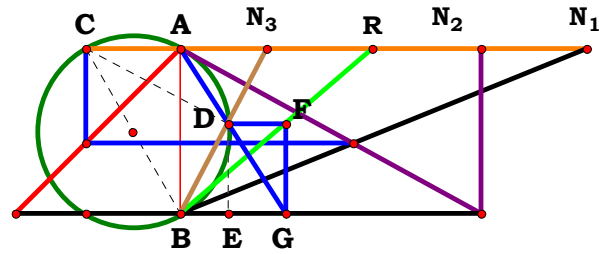
$$R - \frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{D \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot n + X \cdot Y \cdot m + W \cdot n \cdot o)}{p \cdot (W \cdot n + X \cdot m) \cdot (Y^2 + o^2)} = 0$$



$$\frac{N_3 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 2.45760 \\ N_2 &= 1.81833 \\ N_3 &= 0.52517 \\ R &= 1.15990 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.45760 \quad N_2 := 1.81833 \quad N_3 := .52517$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$BE := N_3 \cdot DE \quad BG := \frac{BE \cdot AB}{(AB - DE)}$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.159903$$

Definitions.

$$R - \frac{N_3^2 + 1}{AC + N_3} = 0$$

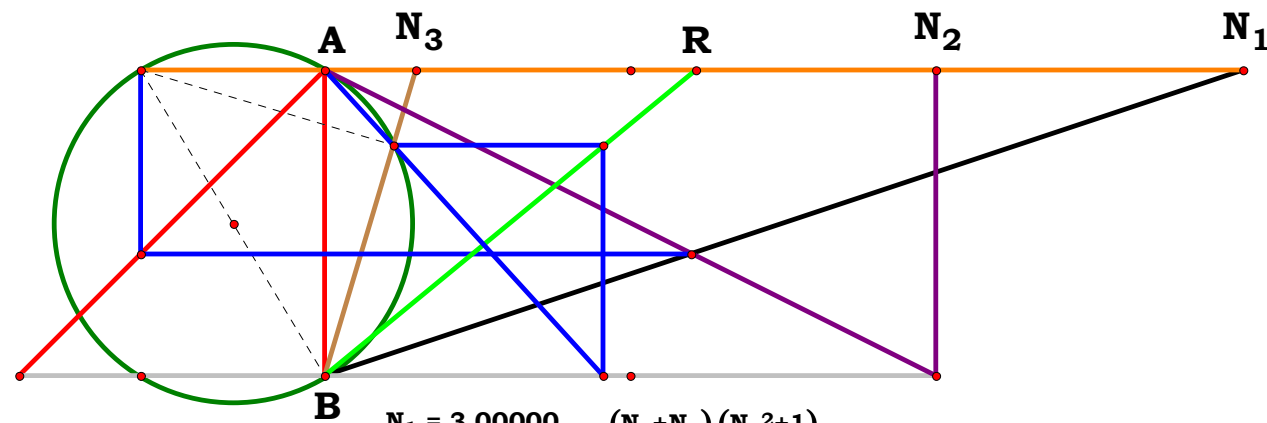
$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1)}{N_1 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{(C^2 + N_u^2) \cdot (A + B)}{C \cdot [B \cdot C + N_u \cdot (A + B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

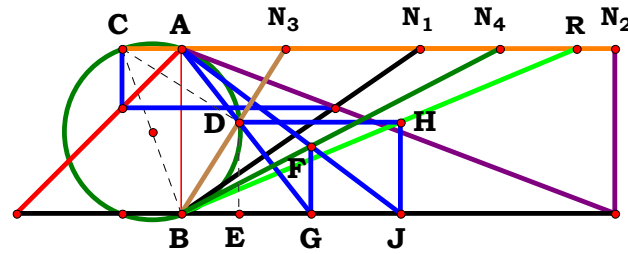
$$R - \frac{(X \cdot p + Y \cdot o) \cdot (Z^2 + q^2)}{X \cdot p \cdot q^2 + X \cdot Z \cdot p \cdot q + Y \cdot Z \cdot o \cdot q} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.30000 \\ R &= 1.21111 \end{aligned} \quad \frac{(N_1 + N_2) \cdot (N_3^2 + 1)}{N_1 + N_1 \cdot N_3 + N_2 \cdot N_3} - R = 0.00000$$



4RST1AB3R7



$N_1 = 1.44059$
 $N_2 = 2.62225$
 $N_3 = 0.63171$
 $N_4 = 1.92724$
 $R = 2.39715$

Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := 2.62225$ $N_3 := .63171$ $N_4 := 1.92724$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$DN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$DE := \frac{AB \cdot BD}{BN_3} \quad BG := \frac{BE \cdot AB}{AB - DE} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$BJ := \frac{BG}{AB - FG} \quad R := \frac{BJ \cdot AB}{DE} \quad R = 2.397151$$

Definitions.

$$R - \frac{N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

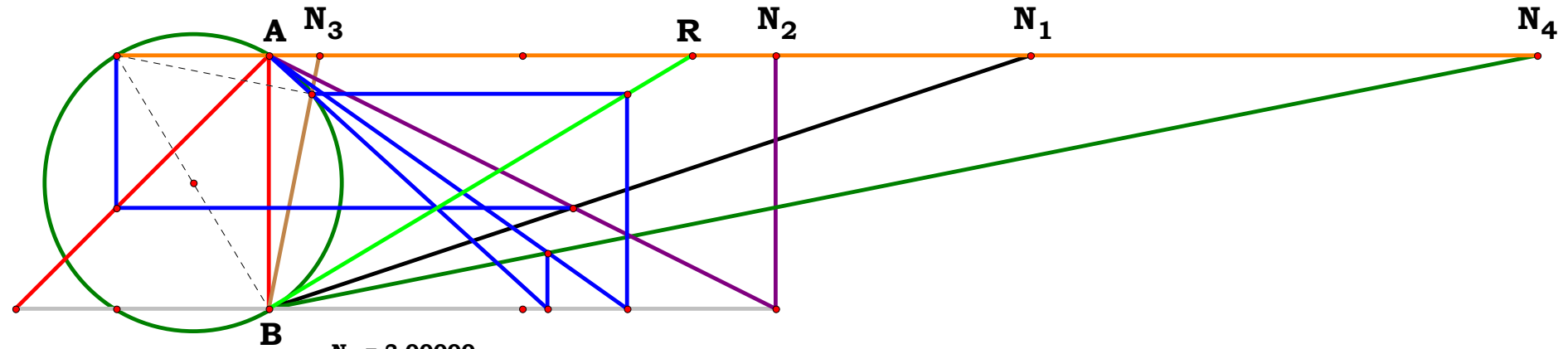
$$R - \frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_1 \cdot (N_3 + N_4) - N_1 - N_2 + N_3 \cdot N_4 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot B \cdot C \cdot (C + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (W \cdot n + X \cdot m) \cdot (Y^2 + o^2)}{o \cdot [W \cdot n \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p) + X \cdot m \cdot (Y \cdot Z - o \cdot p)]} = 0$$

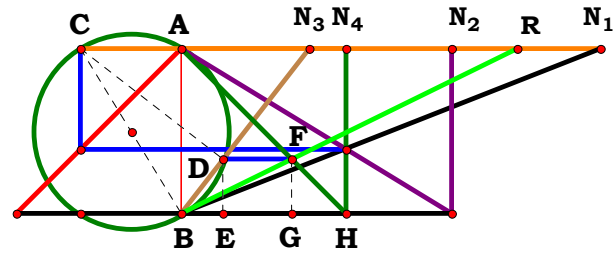


$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.20000$
 $N_4 = 5.00000$
 $R = 1.66667$

$$\frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_1 \cdot (N_3 + N_4) - N_1 - N_2) + N_3 \cdot N_4 \cdot (N_1 + N_2)} \cdot R = 0.00000$$



4RST1AB3R8



$N_1 = 2.53508$
 $N_2 = 1.63430$
 $N_3 = 0.77700$
 $N_4 = 0.99741$
 $R = 2.03456$

Unit. $AB := 1$ Given. $N_1 := 2.53508$ $N_2 := 1.63430$ $N_3 := .77700$ $N_4 := .99741$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad BG := N_4 \cdot (AB - DE)$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 2.034581$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{(1 - AC \cdot N_3)} = 0$$

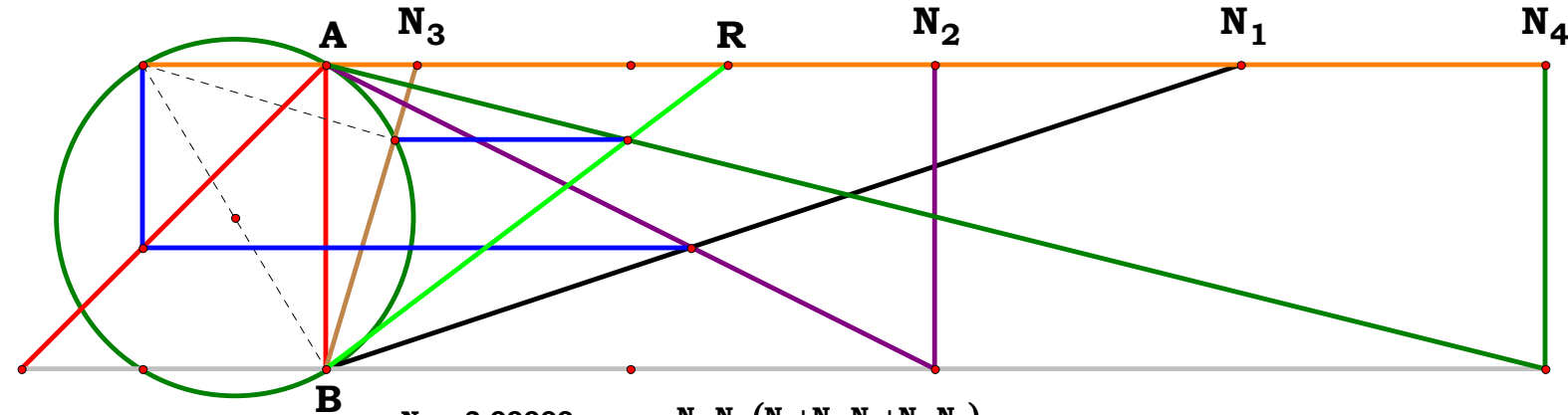
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_1 + N_2 - N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot n + X \cdot Y \cdot m + W \cdot n \cdot o)}{o \cdot p \cdot (W \cdot n \cdot o - W \cdot Y \cdot n + X \cdot m \cdot o)} = 0$$

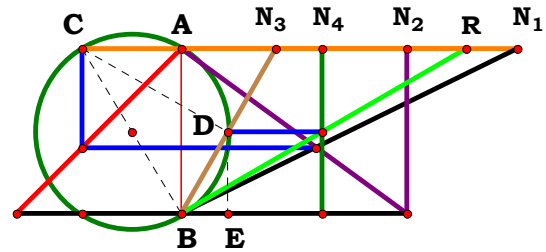


$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.30000$
 $N_4 = 4.00000$
 $R = 1.31707$

$$\frac{N_3 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) - N_1 \cdot N_3} - R = 0.00000$$



4RST1AB3R9



$N_1 = 2.03142$
 $N_2 = 1.36310$
 $N_3 = 0.57360$
 $N_4 = 0.85212$
 $R = 1.72440$

Unit. $AB := 1$ Given. $N_1 := 2.03142$ $N_2 := 1.36310$ $N_3 := .57360$ $N_4 := .85212$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad R := \frac{N_4}{DE}$$

$$R = 1.724414$$

Definitions.

$$R - \frac{-N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 - 1} = 0$$

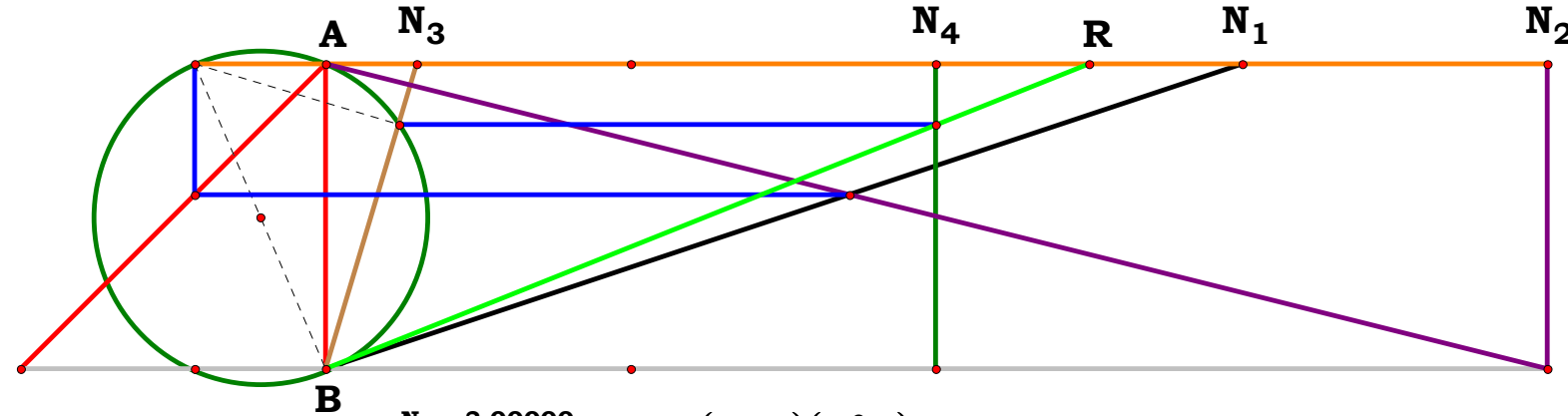
$$R - \frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_1 + N_2 - N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

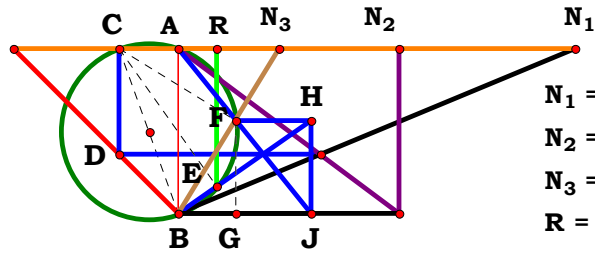
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (W \cdot n + X \cdot m) \cdot (Y^2 + o^2)}{o \cdot p \cdot (W \cdot n \cdot o - W \cdot Y \cdot n + X \cdot m \cdot o)} = 0$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 0.30000$
 $N_4 = 2.00000$
 $R = 2.50164$

$$\frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_1 + N_2) - N_1 \cdot N_3} \cdot R = 0.00000$$



$$\begin{aligned} N_1 &= 2.39948 \\ N_2 &= 1.33405 \\ N_3 &= 0.61234 \\ R &= 0.23235 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.39948 \quad N_2 := 1.33405 \quad N_3 := .61234$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$FN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BF := BN_3 - FN_3 \quad FG := \frac{AB \cdot BF}{BN_3}$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad GJ := \frac{BG \cdot BF}{FN_3}$$

$$BJ := BG + GJ \quad HJ := FG$$

$$AK := \frac{BJ \cdot AB}{HJ} \quad BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK}$$

$$BE := BK - EK \quad R := \frac{AK \cdot BE}{BK}$$

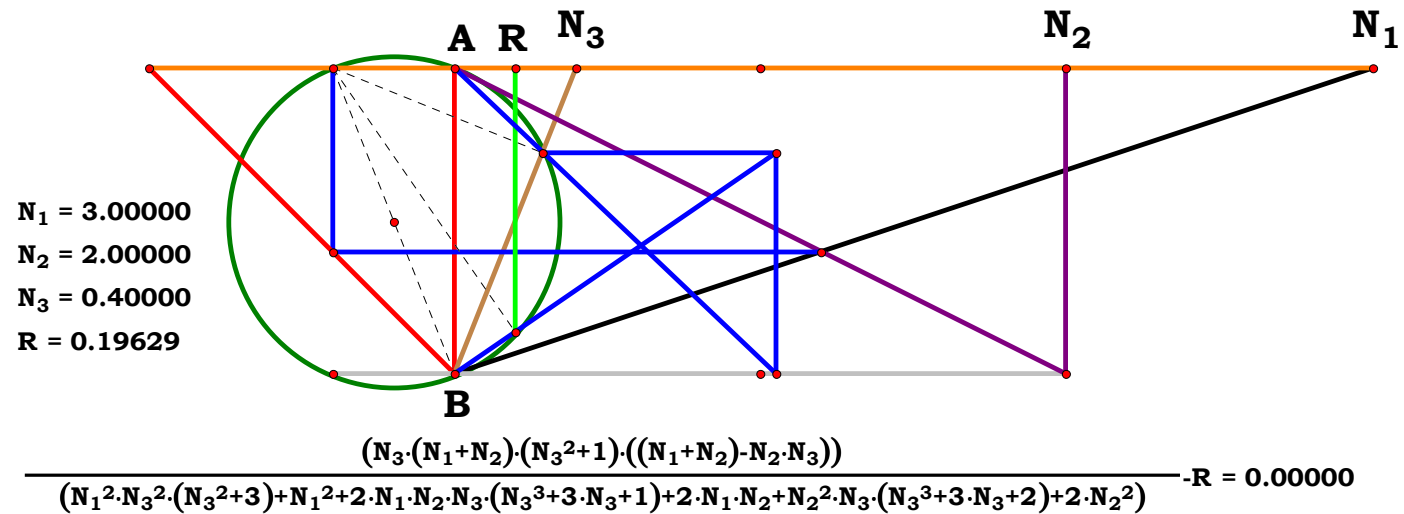
$$R = 0.232351$$

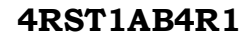
Definitions.

$$R - \frac{N_3 \cdot (N_3^2 + 1) \cdot (1 - AC \cdot N_3)}{AC^2 + 2 \cdot AC \cdot N_3 + N_3^4 + 3 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1 + N_2 - N_2 \cdot N_3)}{N_1^2 \cdot N_3^2 \cdot (N_3^2 + 3) + N_1^2 + 2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 1) + 2 \cdot N_1 \cdot N_2 + N_2^2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 2) + 2 \cdot N_2^2} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot [C \cdot (A + B) - A \cdot N_u]}{N_u^2 \cdot (3 \cdot C^2 + N_u^2) \cdot (A + B)^2 + 2 \cdot N_u \cdot A \cdot C^3 \cdot (A + B) + C^4 \cdot (2 \cdot A^2 + 2 \cdot A \cdot B + B^2)} = 0$$




$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{DN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{BD} := \mathbf{BN}_3 - \mathbf{DN}_3 \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{BD}}{\mathbf{BN}_3}$$

$$R - \frac{N_3 \cdot (1 - AC \cdot N_3)}{N_3^2 + 1} = 0$$

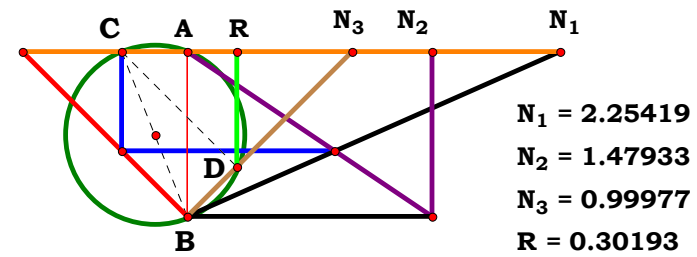
$$R - \frac{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_u \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_u]}{(\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} + \mathbf{B})} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

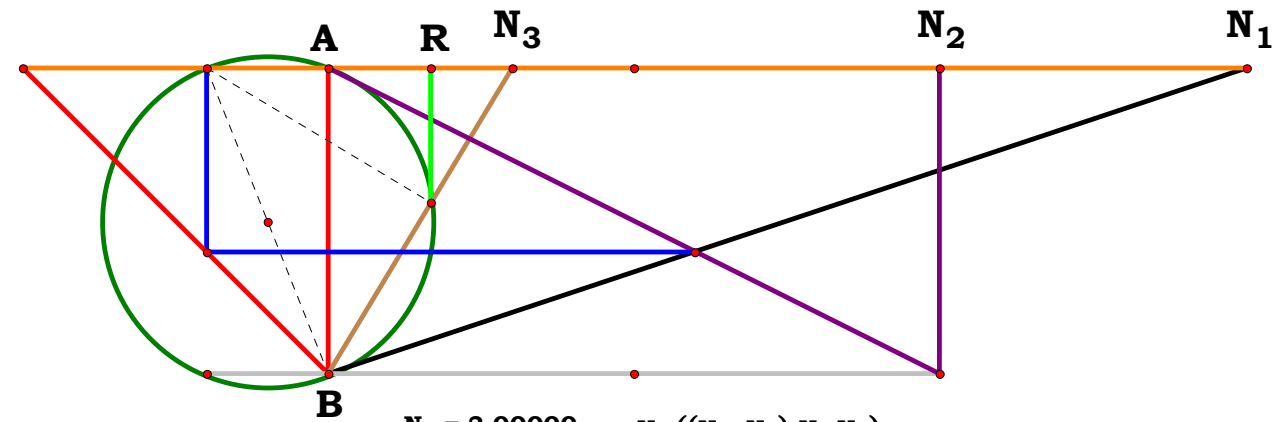
$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q})}{(\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} = 0$$



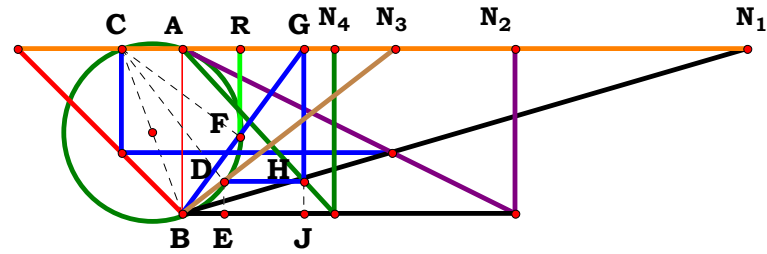
Unit. AB := 1 Given. $N_1 := 2.25419$ $N_2 := 1.47933$ $N_3 := .99977$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{N_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{N_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{N_3}$$



N₁ = 3.00000
N₂ = 2.00000
N₃ = 0.60000
R = 0.33529



$$\begin{aligned} N_1 &:= 3.41649 \\ N_2 &:= 2.01205 \\ N_3 &:= 1.29034 \\ N_4 &:= 0.91992 \\ R &:= 0.34702 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.41649 \quad N_2 := 2.01205 \quad N_3 := 1.29034 \\ N_4 := .91992$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := AB \cdot \left(\frac{BN_3 - EN_3}{BN_3} \right) \quad AG := N_4 \cdot (AB - EF)$$

$$BG := \sqrt{AG^2 + AB^2} \quad CG := AG + AC$$

$$FG := \frac{AG \cdot CG}{BG} \quad R := AG \cdot \left(\frac{BG - FG}{BG} \right)$$

$$R = 0.347019$$

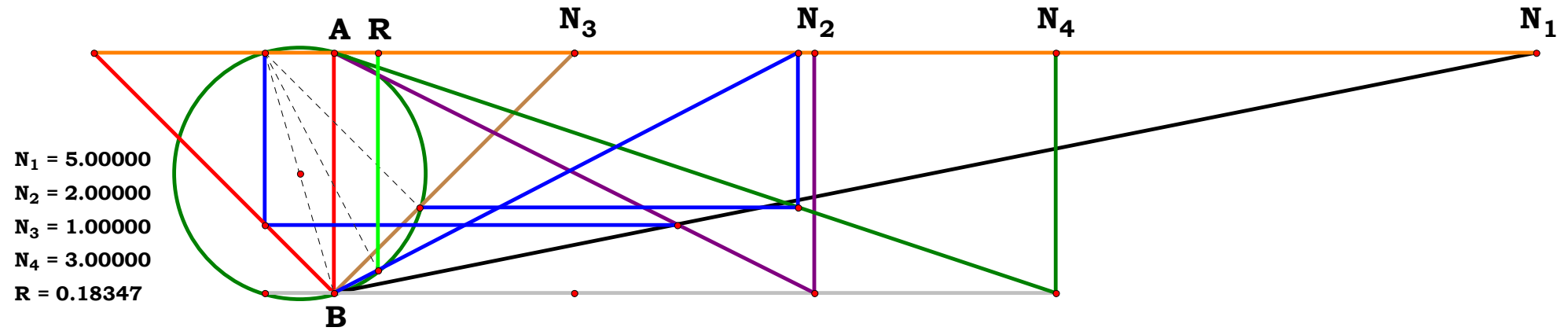
Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3) \cdot (N_3^2 - AC \cdot N_3^2 \cdot N_4 - AC^2 \cdot N_3 \cdot N_4 + 1)}{AC^2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot AC \cdot N_3^3 \cdot N_4^2 + N_3^4 \cdot N_4^2 + N_3^4 + 2 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3) - N_2 \cdot N_3^2 \cdot N_4^2 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)^2}{(N_1 + N_2) \cdot [N_3^2 \cdot N_4^2 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)^2 + (N_3^2 + 1)^2 \cdot (N_1 + N_2)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)] \cdot [D \cdot (C^2 + N_u^2) \cdot (A + B)^2 - [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)]]}{[D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 + N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2] \cdot (A + B)} = 0$$



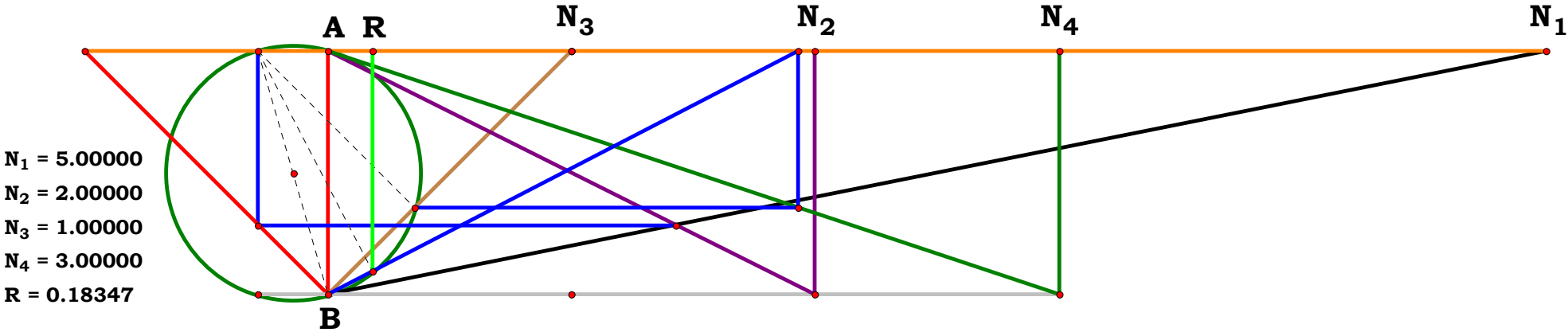
$$\begin{aligned} N_1 &:= 5.00000 \\ N_2 &:= 2.00000 \\ N_3 &:= 1.00000 \\ N_4 &:= 3.00000 \\ R &:= 0.18347 \end{aligned}$$

$$\frac{(N_3 \cdot N_4 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3) - N_2 \cdot N_3^2 \cdot N_4^2 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)^2)}{((N_1 + N_2) \cdot (N_3^2 \cdot N_4^2 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)^2 + (N_3^2 + 1)^2 \cdot (N_1 + N_2)^2))} \cdot R = 0.00000$$

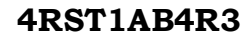


$$N_1-\frac{W}{m}=0 \quad N_2-\frac{X}{n}=0 \quad N_3-\frac{Y}{o}=0 \quad N_4-\frac{Z}{p}=0$$

$$R-\frac{Y\cdot Z\cdot(W\cdot Y\cdot n+X\cdot Y\cdot m+X\cdot m\cdot o)\cdot\left[p\cdot\left(Y^2+o^2\right)\cdot(W\cdot n+X\cdot m)^2-Z\cdot X\cdot Y\cdot m\cdot(W\cdot Y\cdot n+X\cdot Y\cdot m+X\cdot m\cdot o)\right]}{(W\cdot n+X\cdot m)\cdot\left[Z^2\cdot Y^2\cdot(W\cdot Y\cdot n+X\cdot Y\cdot m+X\cdot m\cdot o)^2+p^2\cdot\left(Y^2+o^2\right)^2\cdot(W\cdot n+X\cdot m)^2\right]}=0$$



$$\frac{(N_3\cdot N_4\cdot(N_1+N_2)^2\cdot(N_3^2+1)\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3)-N_2\cdot N_3^2\cdot N_4^2\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3)^2)}{((N_1+N_2)\cdot(N_3^2\cdot N_4^2\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3)^2+(N_3^2+1)^2\cdot(N_1+N_2)^2))}-R=0.00000$$


$$\mathbf{BC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AF} := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CF} := \mathbf{N}_3 + \mathbf{BC} \quad \mathbf{DF} := \frac{\mathbf{N}_3 \cdot \mathbf{CF}}{\mathbf{AF}}$$

$$\mathbf{BE} := \frac{\mathbf{N}_3 \cdot (\mathbf{AF} - \mathbf{DF})}{\mathbf{AF}} \quad \mathbf{R} := \frac{\mathbf{AF} \cdot \mathbf{BE}}{\mathbf{DF}}$$

$$\mathbf{R} - \left(\frac{\mathbf{BC}^2 + 1}{\mathbf{BC} + \mathbf{N}_3} - \mathbf{BC} \right) = 0$$

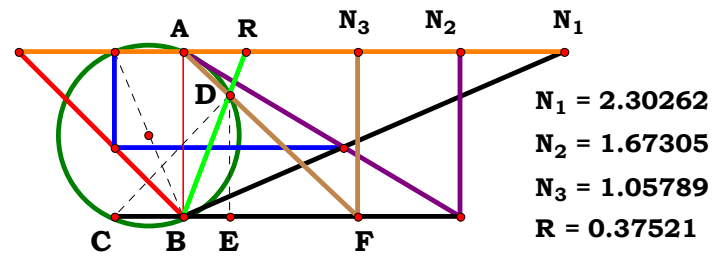
$$R - \frac{N_1 + N_2 - N_2 \cdot N_3}{N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{A} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})} = 0$$

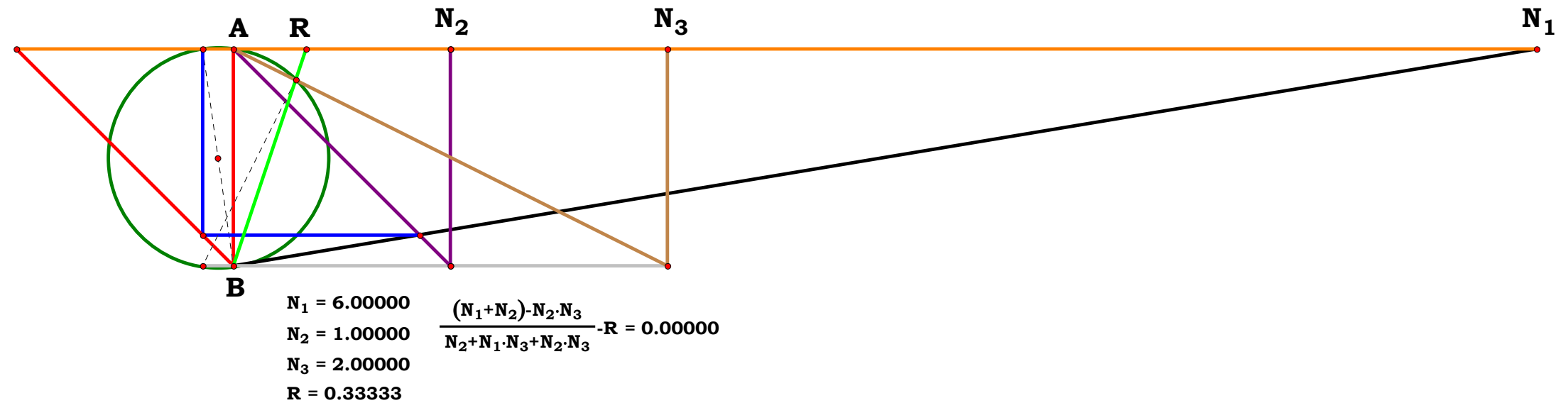
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}}{\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}} = 0$$



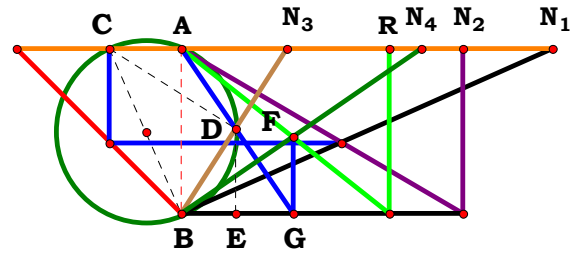
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{x} := 20 \quad \mathbf{y} := 19 \quad \mathbf{z} := 18 \quad \mathbf{o} := \frac{\mathbf{x}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{z}}{\mathbf{N}_3}$$





4RST1AB4R4



$N_1 = 2.24451$
 $N_2 = 1.70210$
 $N_3 = 0.64140$
 $N_4 = 1.45264$
 $R = 1.25869$

Unit. $AB := 1$ Given. $N_1 := 2.24451$ $N_2 := 1.70210$ $N_3 := .64140$ $N_4 := 1.45264$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

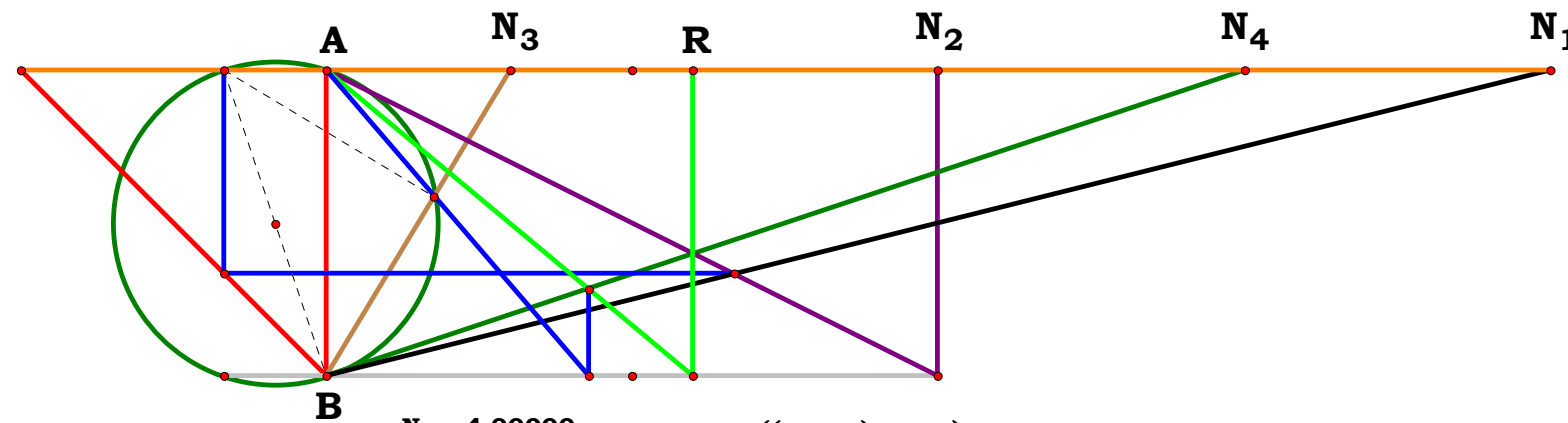
$$AC := \frac{N_2}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$BG := \frac{BE \cdot BN_3}{DN_3} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$R := \frac{BG \cdot AB}{AB - FG} \quad R = 1.258684$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 0.60000$
 $N_4 = 3.00000$
 $R = 1.20000$
 $\frac{N_4 \cdot ((N_1 + N_2) - N_2 \cdot N_3)}{(N_2 \cdot (N_3 + N_4) - N_1 - N_2) + N_3 \cdot N_4 \cdot (N_1 + N_2)} \cdot R = 0.00000$

Definitions.

$$R - \frac{N_4 - AC \cdot N_3 \cdot N_4}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

$$R - \frac{N_4 \cdot (N_1 + N_2 - N_2 \cdot N_3)}{N_2 \cdot (N_3 + N_4) - N_1 - N_2 + N_3 \cdot N_4 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

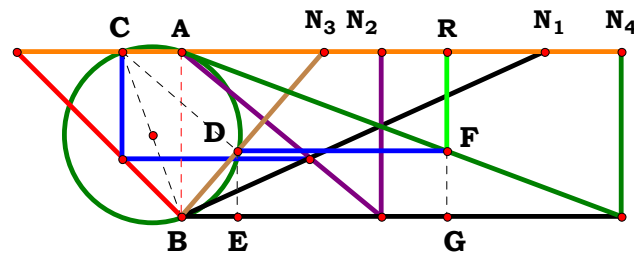
$$R - \frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u]}{(N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot (C + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Z \cdot n \cdot o - X \cdot Y \cdot Z \cdot m + X \cdot Z \cdot m \cdot o}{X \cdot m \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p) + W \cdot (Y \cdot Z \cdot n - n \cdot o \cdot p)} = 0$$



4RST1AB4R5



$N_1 = 2.19608$
 $N_2 = 1.20813$
 $N_3 = 0.86417$
 $N_4 = 2.66336$
 $R = 1.60626$

Unit. $AB := 1$ Given. $N_1 := 2.19608$ $N_2 := 1.20813$ $N_3 := .86417$ $N_4 := 2.66336$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$R := N_4 \cdot (AB - DE) \quad R = 1.606255$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{N_3^2 + 1} = 0$$

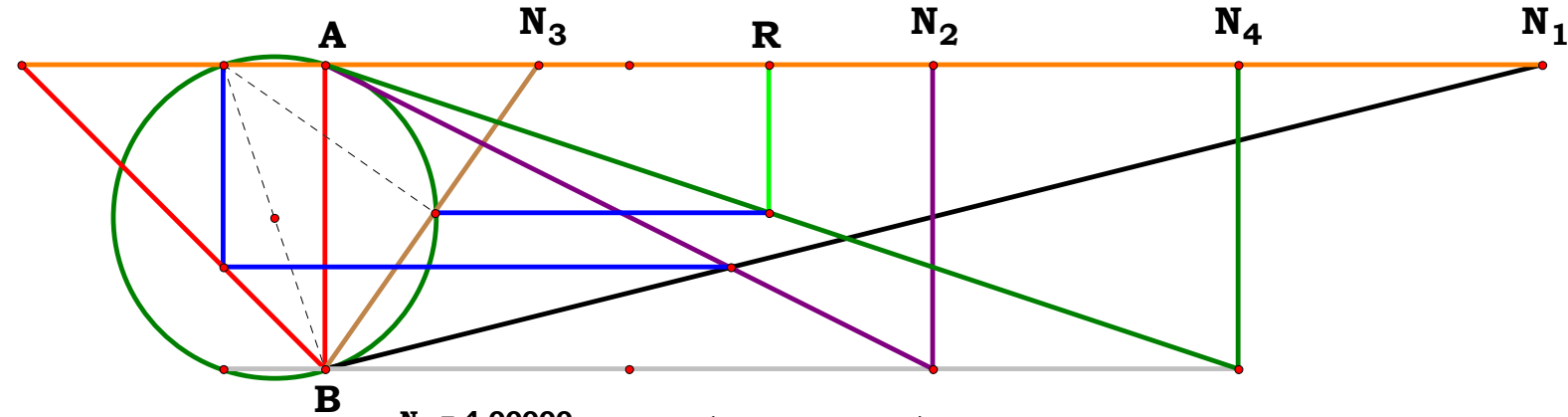
$$R - \frac{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{D \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

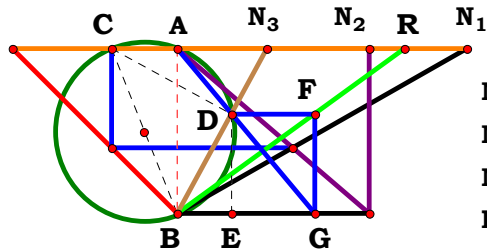
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot n + X \cdot Y \cdot m + X \cdot m \cdot o)}{p \cdot (W \cdot n + X \cdot m) \cdot (Y^2 + o^2)} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 0.70000$
 $N_4 = 3.00000$
 $R = 1.45638$

$$\frac{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$



$N_1 = 1.75053$
 $N_2 = 1.15970$
 $N_3 = 0.54454$
 $R = 1.37485$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.15970$ $N_3 := .54454$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$BE := N_3 \cdot DE \quad BG := \frac{BE \cdot AB}{(AB - DE)}$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.374848$$

Definitions.

$$R - \frac{N_3^2 + 1}{AC + N_3} = 0$$

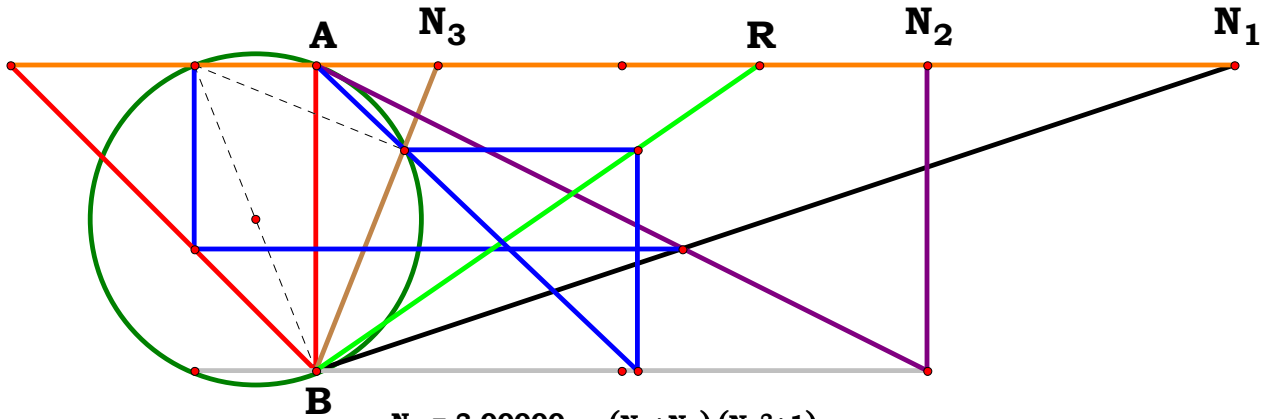
$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1)}{N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{(C^2 + N_u^2) \cdot (A + B)}{C \cdot [A \cdot C + N_u \cdot (A + B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(X \cdot p + Y \cdot o) \cdot (Z^2 + q^2)}{Y \cdot o \cdot q^2 + X \cdot Z \cdot p \cdot q + Y \cdot Z \cdot o \cdot q} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.40000$
 $R = 1.45000$

$$\frac{(N_1 + N_2) \cdot (N_3^2 + 1)}{N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} - R = 0.00000$$


$$\mathbf{AC} := \frac{N_2}{N_1 + N_2} \quad \mathbf{BN}_3 := \sqrt{N_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{DN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_3} \quad \mathbf{BG} := \frac{\mathbf{BE} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{DE}}$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{BG}}{\mathbf{N}_4} \quad \mathbf{BJ} := \frac{\mathbf{BG}}{\mathbf{AB} - \mathbf{FG}}$$

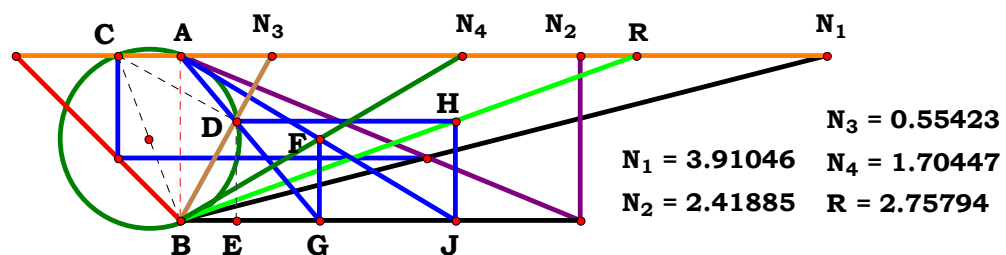
$$\mathbf{R} := \frac{\mathbf{BJ} \cdot \mathbf{AB}}{\mathbf{DE}} \qquad \mathbf{R} = 2.757919$$

$$R - \frac{N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

$$R - \frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_2 \cdot (N_3 + N_4) - N_1 - N_2 + N_3 \cdot N_4 \cdot (N_1 + N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot (\mathbf{N}_{\mathbf{u}}^2 - \mathbf{C} \cdot \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} + \mathbf{D})} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) \cdot (\mathbf{Y}^2 + \mathbf{o}^2)}{\mathbf{o} \cdot [\mathbf{W} \cdot \mathbf{n} \cdot (\mathbf{Y} \cdot \mathbf{Z} - \mathbf{o} \cdot \mathbf{p}) + \mathbf{X} \cdot \mathbf{m} \cdot (\mathbf{Y} \cdot \mathbf{Z} + \mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{o} - \mathbf{o} \cdot \mathbf{p})]} = 0$$

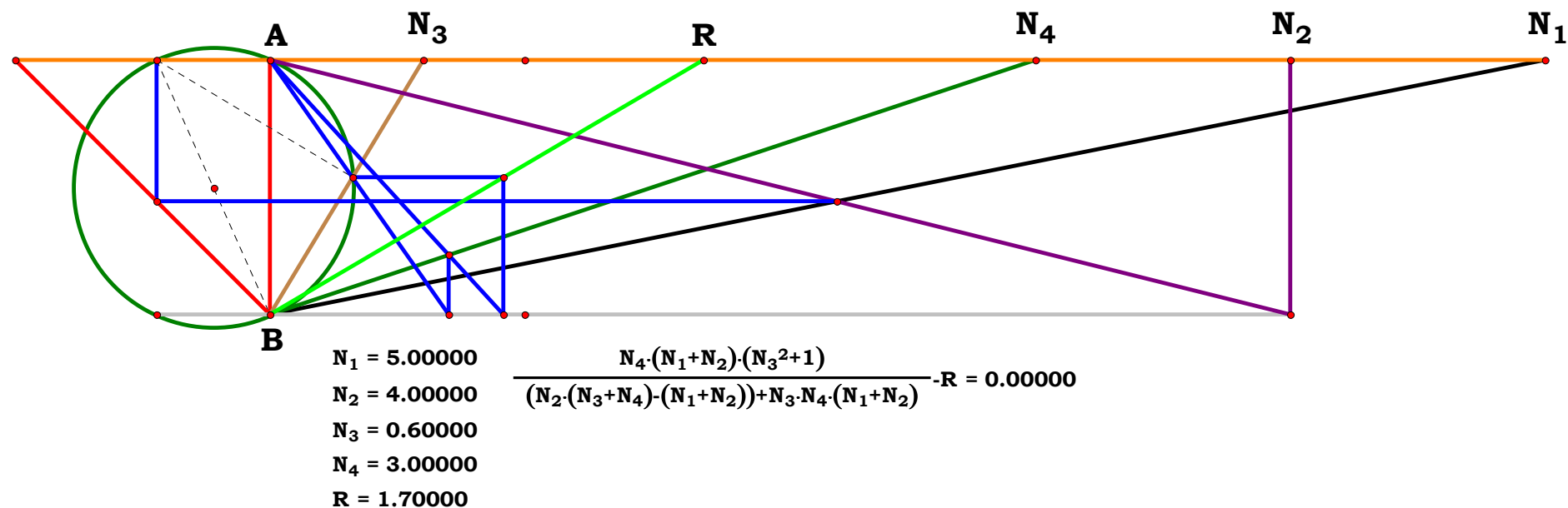


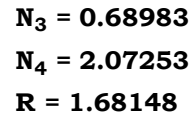
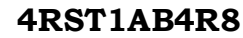
Unit. AB := 1 Given. $N_1 := 3.91046$ $N_2 := 2.41885$ $N_3 := .55423$

$$\mathbf{N}_4 := 1.70447$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC}$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2} \quad \mathbf{DN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot (\mathbf{BN}_3 - \mathbf{DN}_3)}{\mathbf{BN}_3} \quad \mathbf{BG} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{DE})$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.681505$$

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{(1 - AC \cdot N_3)} = 0$$

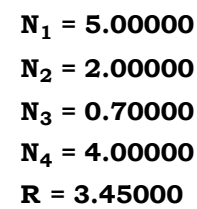
$$R - \frac{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_1 + N_2 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{C \cdot D \cdot [A \cdot C + (B \cdot C - A \cdot N_u)]} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

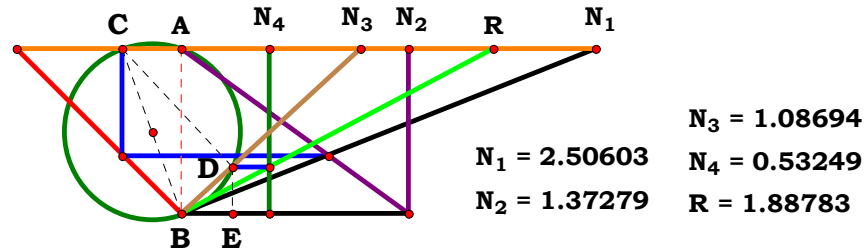
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})}{\mathbf{o} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})} = 0$$



$$\frac{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{(N_1 + N_2) \cdot N_2 \cdot N_3} \cdot R = 0.00000$$



4RST1AB4R9



Unit. $AB := 1$ Given. $N_1 := 2.50603$ $N_2 := 1.37279$ $N_3 := 1.08694$ $N_4 := .53249$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad R := \frac{N_4}{DE}$$

$$R = 1.887817$$

Definitions.

$$R - \frac{-N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 - 1} = 0$$

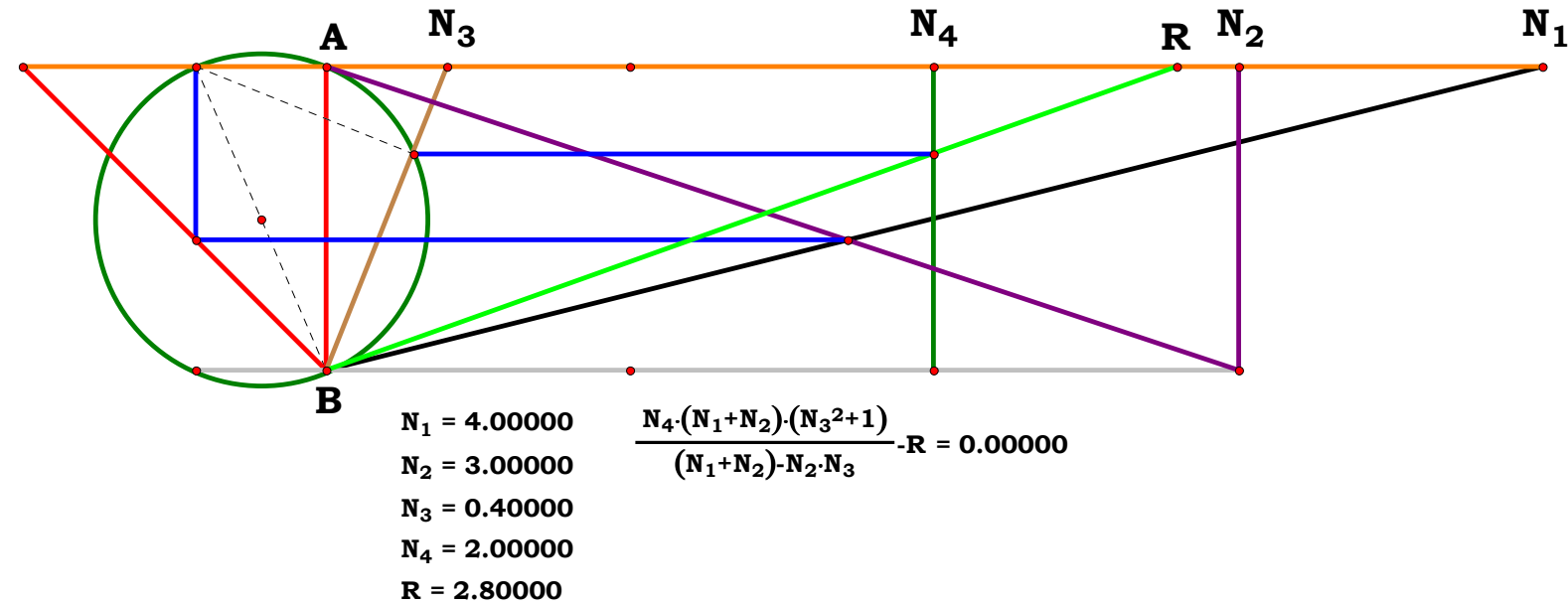
$$R - \frac{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_1 + N_2 - N_2 \cdot N_3} = 0$$

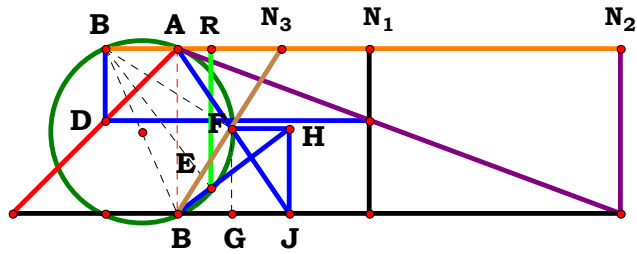
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [C \cdot (A + B) - A \cdot N_u]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (W \cdot n + X \cdot m) \cdot (Y^2 + o^2)}{o \cdot p \cdot (W \cdot n \cdot o - X \cdot Y \cdot m + X \cdot m \cdot o)} = 0$$





$$\begin{aligned} N_1 &= 1.15970 \\ N_2 &= 2.68037 \\ N_3 &= 0.63171 \\ R &= 0.20783 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.15970 \quad N_2 := 2.68037 \quad N_3 := .63171$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$FN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BF := BN_3 - FN_3 \quad FG := \frac{AB \cdot BF}{BN_3}$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad GJ := \frac{BG \cdot BF}{FN_3} \quad BJ := BG + GJ$$

$$HJ := FG \quad AK := \frac{BJ \cdot AB}{HJ} \quad BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK} \quad BE := BK - EK$$

$$R := \frac{AK \cdot BE}{BK} \quad R = 0.207828$$

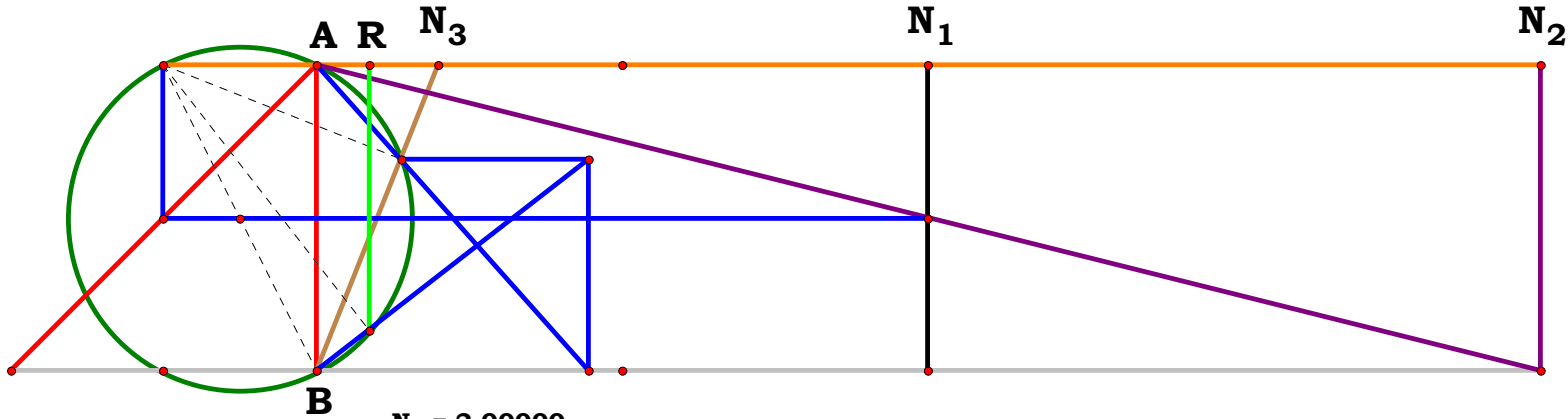
Definitions.

$$R - \frac{N_3 \cdot (N_3^2 + 1) \cdot (1 - AC \cdot N_3)}{AC^2 + 2 \cdot AC \cdot N_3 + N_3^4 + 3 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_3^2 + 1)}{N_1^2 + N_2 \cdot N_3 \cdot (N_2 \cdot N_3^3 + 3 \cdot N_2 \cdot N_3 + 2 \cdot N_1) + N_2^2} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A \cdot C - B \cdot N_u)}{A \cdot N_u \cdot [C^2 \cdot (2 \cdot B \cdot C + 3 \cdot A \cdot N_u) + A \cdot N_u^3] + C^4 \cdot (A^2 + B^2)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot o \cdot (Y \cdot o \cdot q - X \cdot Z \cdot p) \cdot (Z^2 + q^2)}{Y^2 \cdot o^2 \cdot (Z^4 + 3 \cdot Z^2 \cdot q^2 + q^4) + X \cdot p \cdot q^3 \cdot (2 \cdot Y \cdot Z \cdot o + X \cdot p \cdot q)} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 4.00000 \\ N_3 &= 0.40000 \\ R &= 0.17220 \end{aligned}$$

$$\frac{N_2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_3^2 + 1)}{N_1^2 + N_2 \cdot N_3 \cdot (N_2 \cdot N_3^3 + 3 \cdot N_2 \cdot N_3 + 2 \cdot N_1) + N_2^2} \cdot R = 0.00000$$

4RST1AB5R1

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

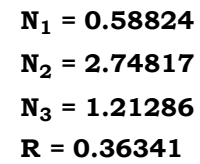
$$\mathbf{BD} := \mathbf{BN}_3 - \mathbf{DN}_3 \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{BD}}{\mathbf{BN}_3}$$

$$R - \frac{N_3 \cdot (1 - AC \cdot N_3)}{N_3^2 + 1} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

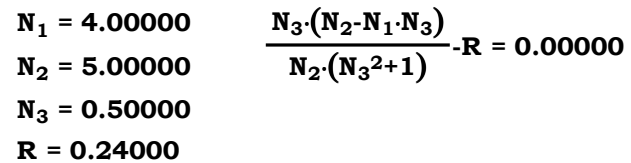
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

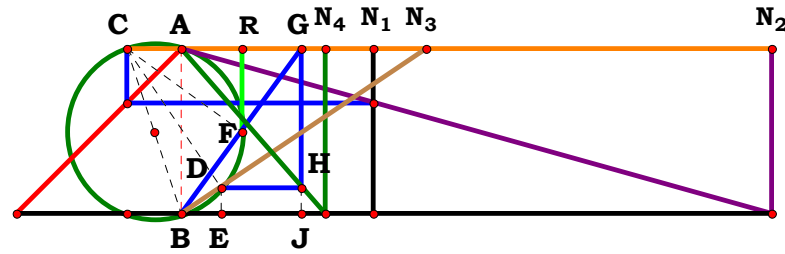
$$\mathbf{R} - \frac{\mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p})}{\mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} = \mathbf{0}$$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$





$N_1 = 1.15970$
 $N_2 = 3.57146$
 $N_3 = 1.48406$
 $N_4 = 0.87149$
 $R = 0.36334$

Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 3.57146$ $N_3 := 1.48406$

$N_4 := .87149$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := AB \cdot \left(\frac{BN_3 - EN_3}{BN_3} \right) \quad AG := N_4 \cdot (AB - EF)$$

$$BG := \sqrt{AG^2 + AB^2} \quad CG := AG + AC$$

$$FG := \frac{AG \cdot CG}{BG} \quad R := AG \cdot \left(\frac{BG - FG}{BG} \right)$$

$R = 0.363336$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3) \cdot (N_3^2 - N_4 \cdot AC \cdot N_3^2 - N_4 \cdot AC^2 \cdot N_3 + 1)}{AC^2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot AC \cdot N_3^3 \cdot N_4^2 + N_3^4 \cdot N_4^2 + N_3^4 + 2 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_2^2 \cdot N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3) \cdot (N_3^2 + 1) - N_1 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_2 \cdot N_3)^2}{N_2 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_2 \cdot N_3)^2 + N_2^3 \cdot (N_3^2 + 1)^2} = 0$$

$$R - \frac{N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot [D \cdot A^2 \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u)]}{A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2} = 0$$

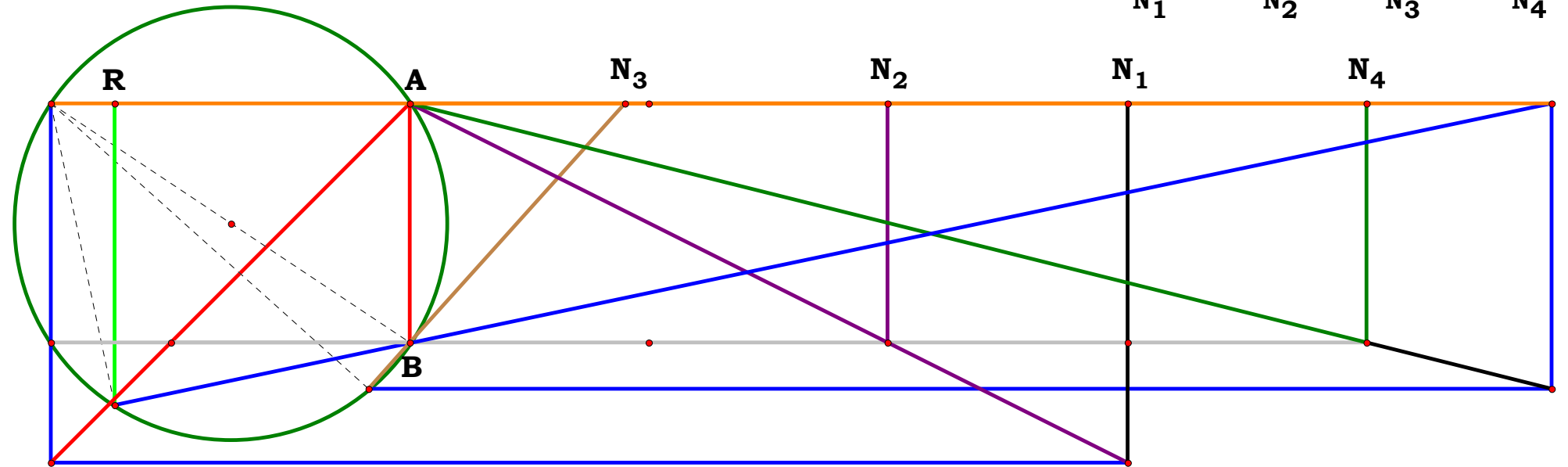
$$R - \frac{Y \cdot Z \cdot (X \cdot Y \cdot m + W \cdot n \cdot o) \cdot [X^2 \cdot m^2 \cdot p \cdot (Y^2 + o^2) - W \cdot Y \cdot Z \cdot n \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)]}{Z^2 \cdot X \cdot Y^2 \cdot m \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)^2 + X^3 \cdot m^3 \cdot p^2 \cdot (Y^2 + o^2)^2} = 0$$

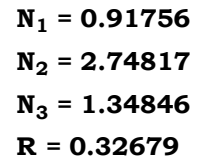
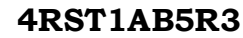
$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.90000$
 $N_4 = 4.00000$
 $R = -1.23625$

$$\frac{N_2^2 \cdot N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3) \cdot (N_3^2 + 1) - N_1 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_2 \cdot N_3)^2}{N_2 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 + N_2 \cdot N_3)^2 + N_2^3 \cdot (N_3^2 + 1)^2} \cdot R = 0.00000$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{BC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{AF} := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{BE} := \frac{\mathbf{N}_3 \cdot (\mathbf{AF} - \mathbf{DF})}{\mathbf{AF}} \quad \mathbf{R} := \frac{\mathbf{AF} \cdot \mathbf{BE}}{\mathbf{DF}}$$

$$\mathbf{R} - \left(\frac{\mathbf{BC}^2 + 1}{\mathbf{BC} + \mathbf{N}_3} - \mathbf{BC} \right) = 0$$

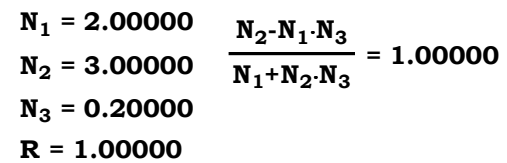
$$R - \frac{N_2 - N_1 \cdot N_3}{N_1 + N_2 \cdot N_3} = 0$$

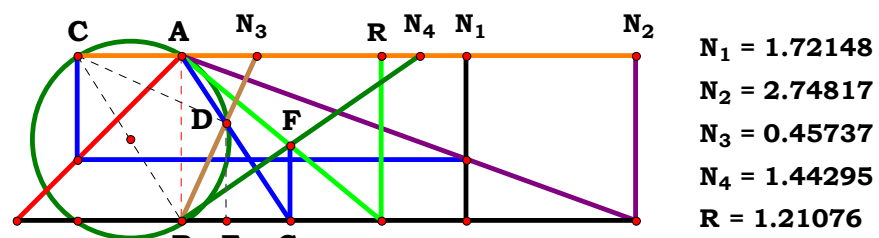
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot C - B \cdot N_u}{B \cdot C + A \cdot N_u} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p}}{\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 2.74817$ $N_3 := .45737$ $N_4 := 1.44295$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$BG := \frac{BE \cdot BN_3}{DN_3} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$R := \frac{BG \cdot AB}{AB - FG} \quad R = 1.210742$$

Definitions.

$$R - \frac{N_4 - AC \cdot N_3 \cdot N_4}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

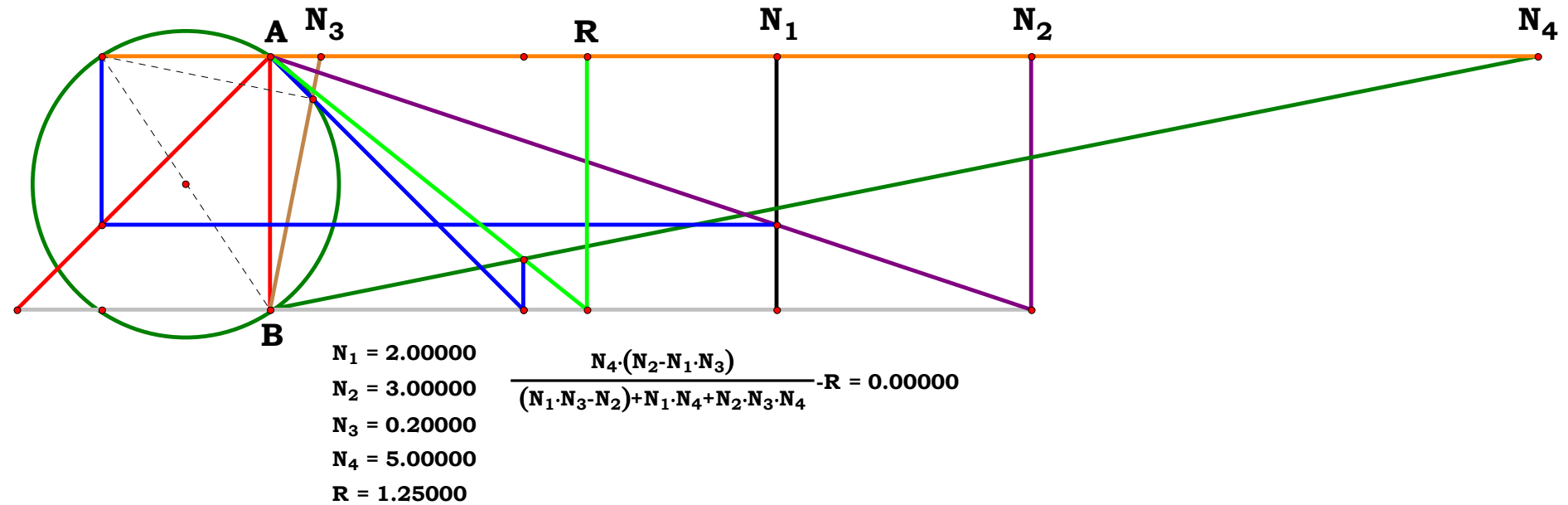
$$R - \frac{N_4 \cdot (N_2 - N_1 \cdot N_3)}{N_1 \cdot N_3 - N_2 + N_1 \cdot N_4 + N_2 \cdot N_3 \cdot N_4} = 0$$

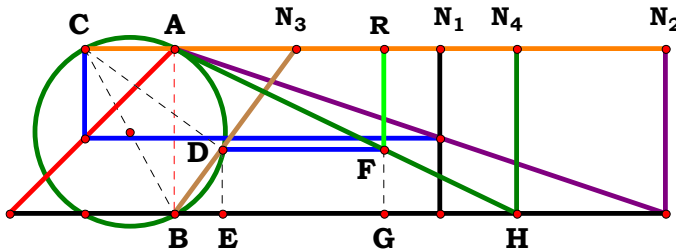
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (X \cdot m \cdot o - W \cdot Y \cdot n)}{X \cdot m \cdot (Y \cdot Z - o \cdot p) + W \cdot n \cdot (Y \cdot p + Z \cdot o)} = 0$$





$N_1 = 1.60525$
 $N_2 = 2.97094$
 $N_3 = 0.73826$
 $N_4 = 2.07253$
 $R = 1.26619$

Unit. $AB := 1$ Given. $N_1 := 1.60525$ $N_2 := 2.9709$ $N_3 := .73826$ $N_4 := 2.07253$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \qquad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \qquad DE := \frac{AB \cdot BD}{BN_3}$$

$$R := N_4 \cdot (AB - DE) \qquad R = 1.266203$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{N_3^2 + 1} = 0$$

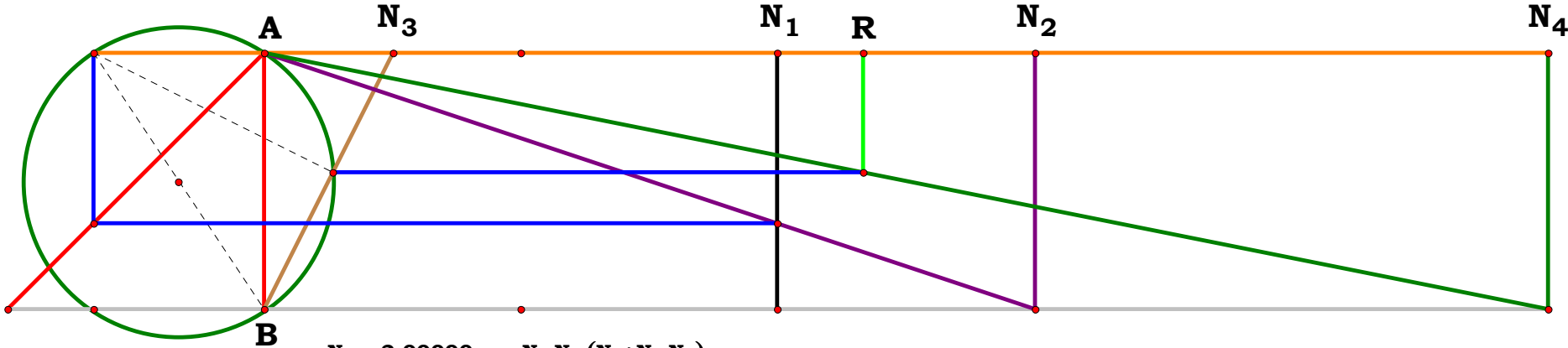
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{A \cdot D \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{W}{m} = 0 \qquad N_2 - \frac{X}{n} = 0 \qquad N_3 - \frac{Y}{o} = 0 \qquad N_4 - \frac{Z}{p} = 0$$

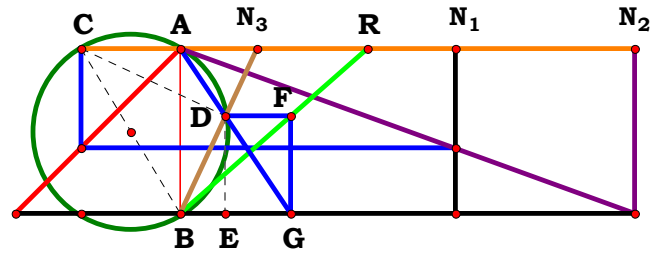
$$R - \frac{Y \cdot Z \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)}{p \cdot (X \cdot m \cdot Y^2 + X \cdot m \cdot o^2)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.50000$
 $N_4 = 5.00000$
 $R = 2.33333$
 $\frac{N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} - R = 0.00000$



4RST1AB5R6



$N_1 = 1.66336$
 $N_2 = 2.74817$
 $N_3 = 0.46705$
 $R = 1.13599$

Unit. $AB := 1$ Given. $N_1 := 1.66336$ $N_2 := 2.74817$ $N_3 := .46705$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$BE := N_3 \cdot DE \quad BG := \frac{BE \cdot AB}{(AB - DE)}$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.135991$$

Definitions.

$$R - \frac{N_3^2 + 1}{AC + N_3} = 0$$

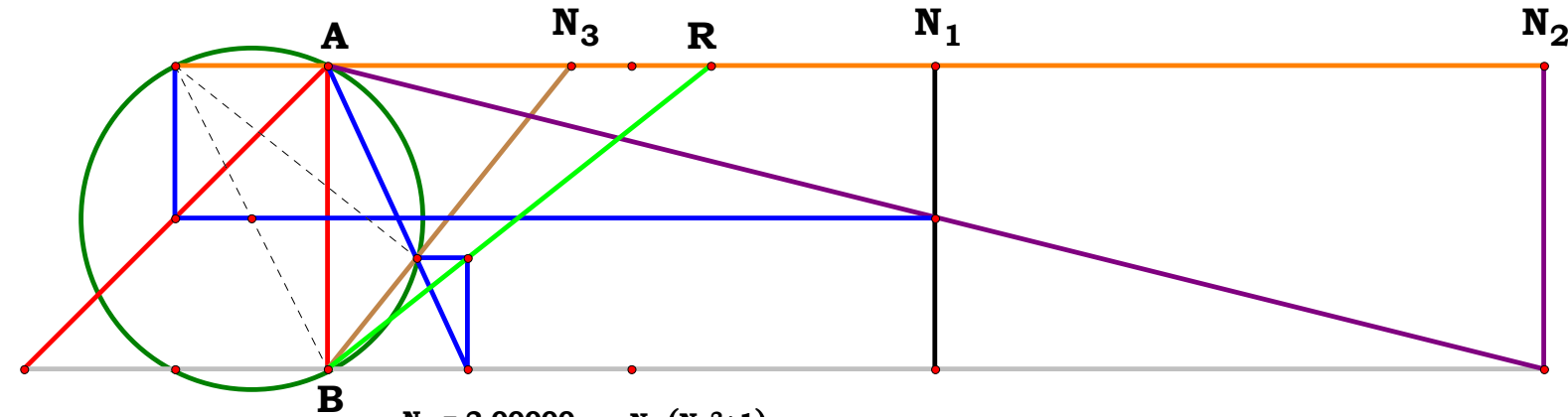
$$R - \frac{N_2 \cdot (N_3^2 + 1)}{N_1 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot (C^2 + N_u^2)}{B \cdot C^2 + A \cdot N_u \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot o \cdot (Z^2 + q^2)}{X \cdot p \cdot q^2 + Y \cdot Z \cdot o \cdot q} = 0$$

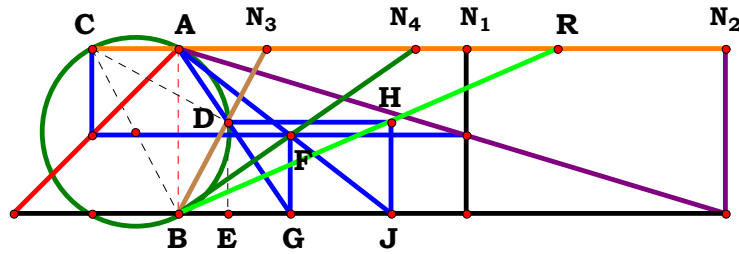


$N_1 = 2.00000$
 $N_2 = 4.00000$
 $N_3 = 0.80000$
 $R = 1.26154$

$$\frac{N_2 \cdot (N_3^2 + 1)}{N_1 + N_2 \cdot N_3} - R = 0.00000$$



4RST1AB5R7



$N_1 = 1.74085$
 $N_2 = 3.30995$
 $N_3 = 0.53485$
 $N_4 = 1.43327$
 $R = 2.29918$

Unit. $AB := 1$ Given. $N_1 := 1.74085$ $N_2 := 3.30995$ $N_3 := .53485$ $N_4 := 1.43347$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

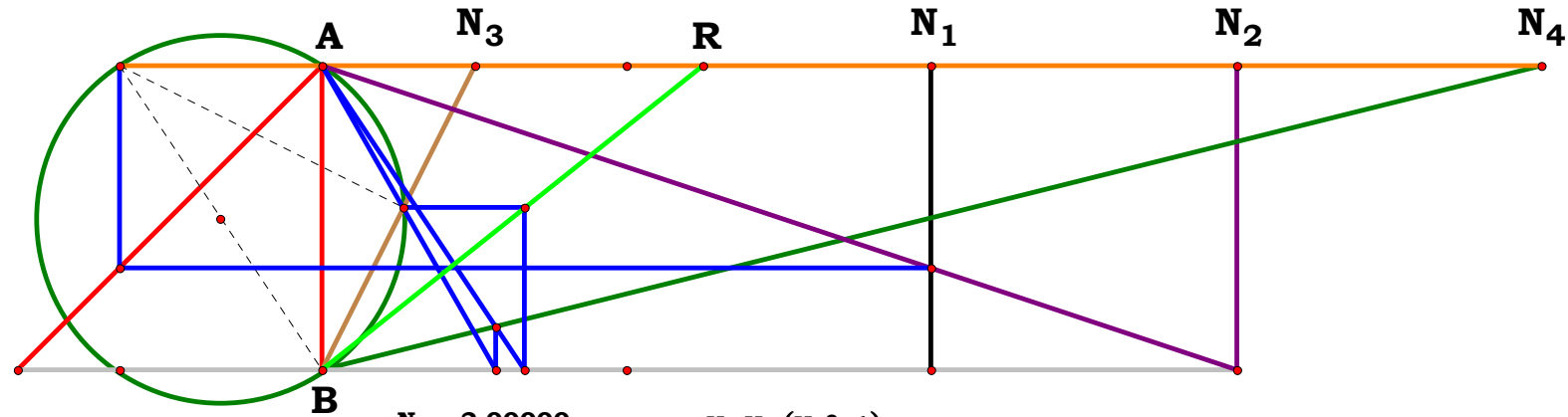
$$CN_3 := N_3 + AC \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$DE := \frac{AB \cdot BD}{BN_3} \quad BG := \frac{BE \cdot AB}{AB - DE}$$

$$FG := \frac{AB \cdot BG}{N_4} \quad BJ := \frac{BG}{AB - FG}$$

$$R := \frac{BJ \cdot AB}{DE} \quad R = 2.298906$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.50000$
 $N_4 = 4.00000$
 $R = 1.25000$

$$\frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{(N_1 \cdot N_3 - N_2) + N_1 \cdot N_4 + N_2 \cdot N_3 \cdot N_4} - R = 0.00000$$

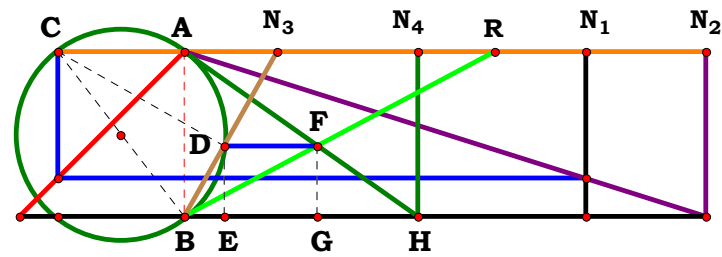
Definitions.

$$R - \frac{N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

$$R - \frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 - N_2 + N_1 \cdot N_4 + N_2 \cdot N_3 \cdot N_4} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot (Y^2 + o^2)}{o \cdot [X \cdot m \cdot (Y \cdot Z - o \cdot p) + W \cdot n \cdot (Y \cdot p + Z \cdot o)]} = 0$$



N₁ = 2.42854
N₂ = 3.15497
N₃ = 0.56391
N₄ = 1.41390
R = 1.87893

Unit. AB := 1 **Given.** $N_1 := 2.42854$ $N_2 := 3.15497$ $N_3 := .56391$

$$\mathbf{N}_4 := 1.41390$$
$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2} \quad \mathbf{C} := \frac{\mathbf{N}_u}{\mathbf{N}_3} \quad \mathbf{D} := \frac{\mathbf{N}_u}{\mathbf{N}_4}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC}$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2} \quad \mathbf{DN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{DE} := \frac{\mathbf{AB} \cdot (\mathbf{BN}_3 - \mathbf{DN}_3)}{\mathbf{BN}_3} \quad \mathbf{BG} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{DE})$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.878932$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{(1 - AC \cdot N_3)} = 0$$

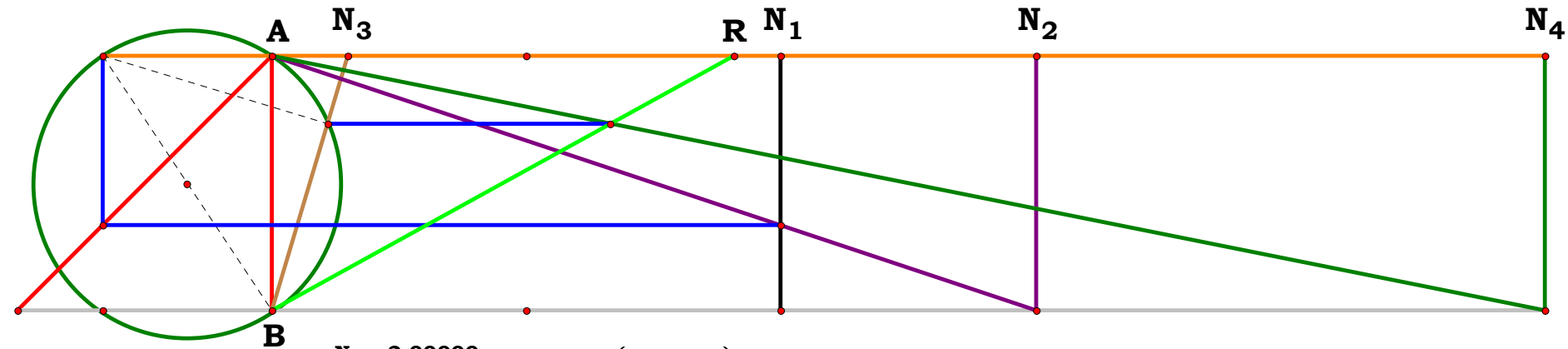
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3)}{N_2 - N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{D \cdot (A \cdot C^2 - B \cdot C \cdot N_u)} = 0$$

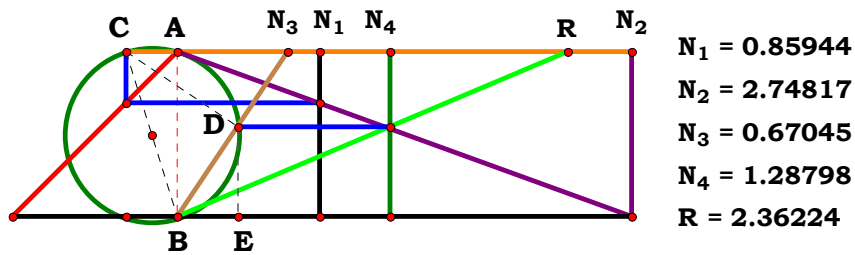
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)}{p \cdot (X \cdot m \cdot o^2 - W \cdot Y \cdot n \cdot o)} = 0$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 0.30000
N₄ = 5.00000
R = 1.81250

$$\frac{N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3)}{N_2 \cdot N_1 \cdot N_3} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .85944$ $N_2 := 2.74817$ $N_3 := .67045$
 $N_4 := 1.28798$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \qquad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \qquad R := \frac{N_4}{DE}$$

$$R = 2.36222$$

Definitions.

$$R - \frac{-N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 - 1} = 0$$

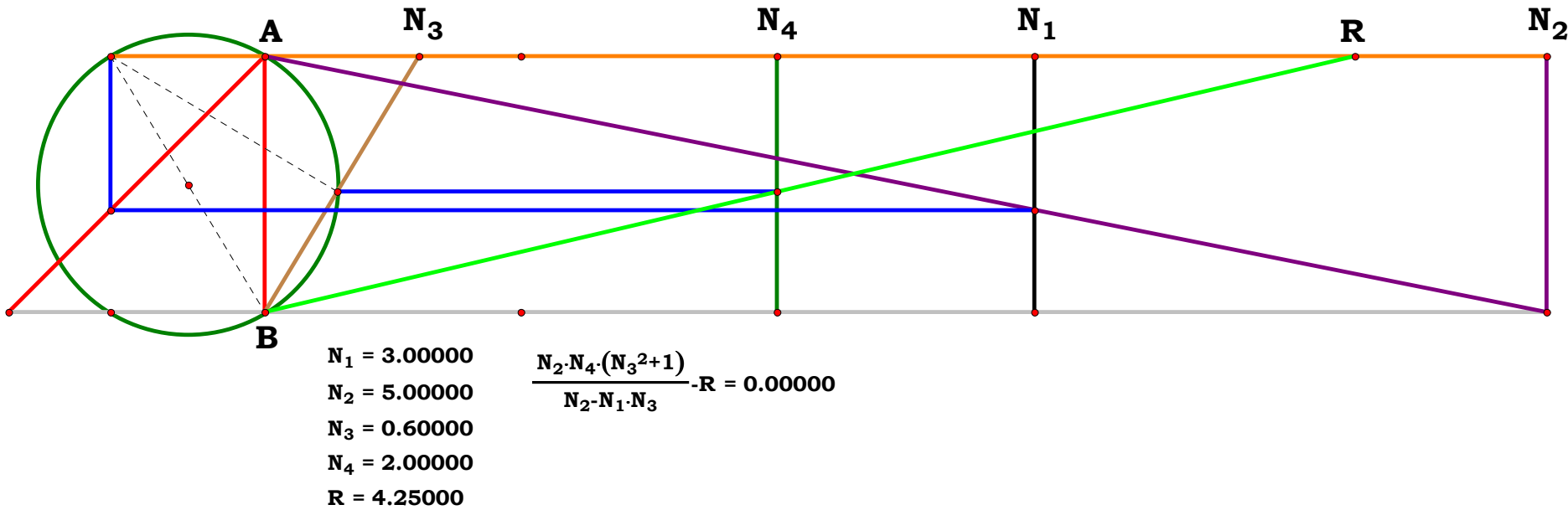
$$R - \frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{N_2 - N_1 \cdot N_3} = 0$$

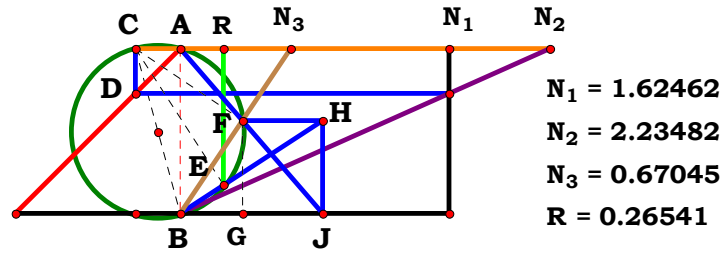
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [C \cdot (A \cdot C - B \cdot N_u)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot (Y^2 + o^2)}{p \cdot o \cdot (X \cdot m \cdot o - W \cdot Y \cdot n)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.62462$ $N_2 := 2.23482$ $N_3 := .67045$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC \quad FN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BF := BN_3 - FN_3 \quad FG := \frac{AB \cdot BF}{BN_3} \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad GJ := \frac{BG \cdot BF}{FN_3} \quad BJ := BG + GJ$$

$$HJ := FG \quad AK := \frac{BJ \cdot AB}{HJ} \quad BK := \sqrt{AK^2 + AB^2} \quad CK := AK + AC$$

$$EK := \frac{AK \cdot CK}{BK} \quad BE := BK - EK \quad R := \frac{AK \cdot BE}{BK} \quad R = 0.265414$$

Definitions.

$$R - \frac{N_3 \cdot (N_3^2 + 1) \cdot (1 - AC \cdot N_3)}{AC^2 + 2 \cdot AC \cdot N_3 + N_3^4 + 3 \cdot N_3^2 + 1} = 0$$

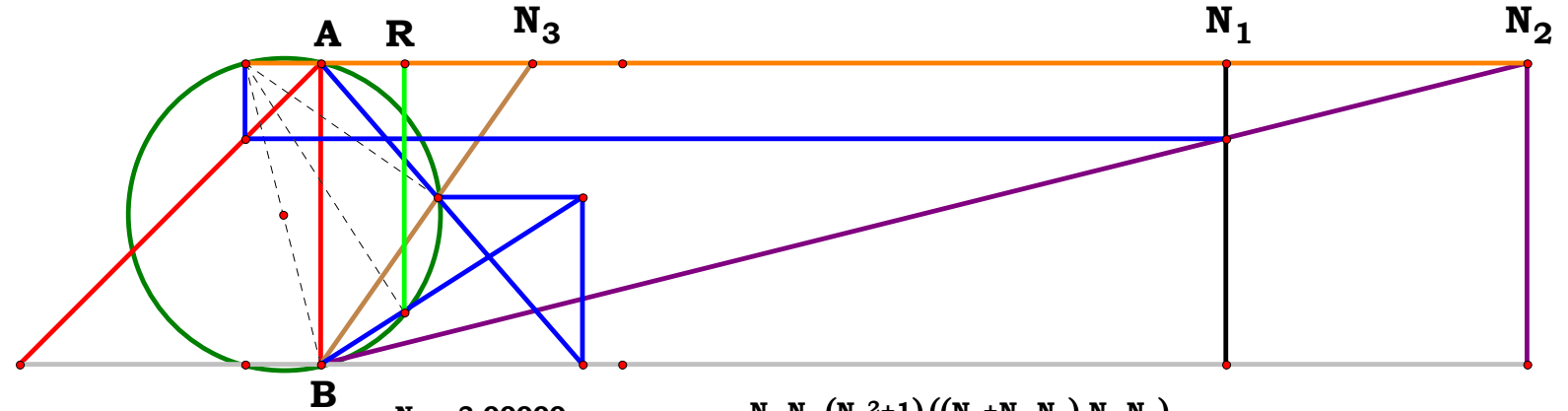
$$R - \frac{N_2 \cdot N_3 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_1^2 - 2 \cdot N_1 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_2 + N_2^2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 2) + 2 \cdot N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

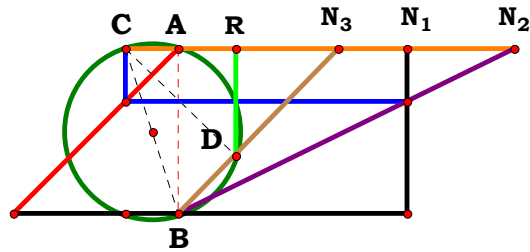
$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot [A \cdot C + N_u \cdot (B - A)]}{C^4 \cdot (2 \cdot A^2 - 2 \cdot A \cdot B + B^2) + 2 \cdot C^3 \cdot A \cdot N_u \cdot (A - B) + A^2 \cdot N_u^2 \cdot (3 \cdot C^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot o \cdot (Z^2 + q^2) \cdot (X \cdot Z \cdot p - Y \cdot Z \cdot o + Y \cdot o \cdot q)}{p^2 \cdot q^4 \cdot X^2 - 2 \cdot X \cdot Y \cdot o \cdot p \cdot q^3 \cdot (Z + q) + Y^2 \cdot o^2 \cdot (Z^4 + 3 \cdot Z^2 \cdot q^2 + 2 \cdot Z \cdot q^3 + 2 \cdot q^4)} = 0$$



$$R - \frac{N_2 \cdot N_3 \cdot (N_3^2 + 1) \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{(N_1^2 - 2 \cdot N_1 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_2) + N_2^2 \cdot N_3 \cdot (N_3^3 + 3 \cdot N_3 + 2) + 2 \cdot N_2^2} = 0.00000$$



$$\begin{aligned} N_1 &= 1.38247 \\ N_2 &= 2.03142 \\ N_3 &= 0.97071 \\ R &= 0.34480 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.38247 \quad N_2 := 2.03142 \quad N_3 := .97071$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad R := \frac{N_3 \cdot BD}{BN_3}$$

$$R = 0.344798$$

Definitions.

$$R - \frac{N_3 \cdot (1 - AC \cdot N_3)}{N_3^2 + 1} = 0$$

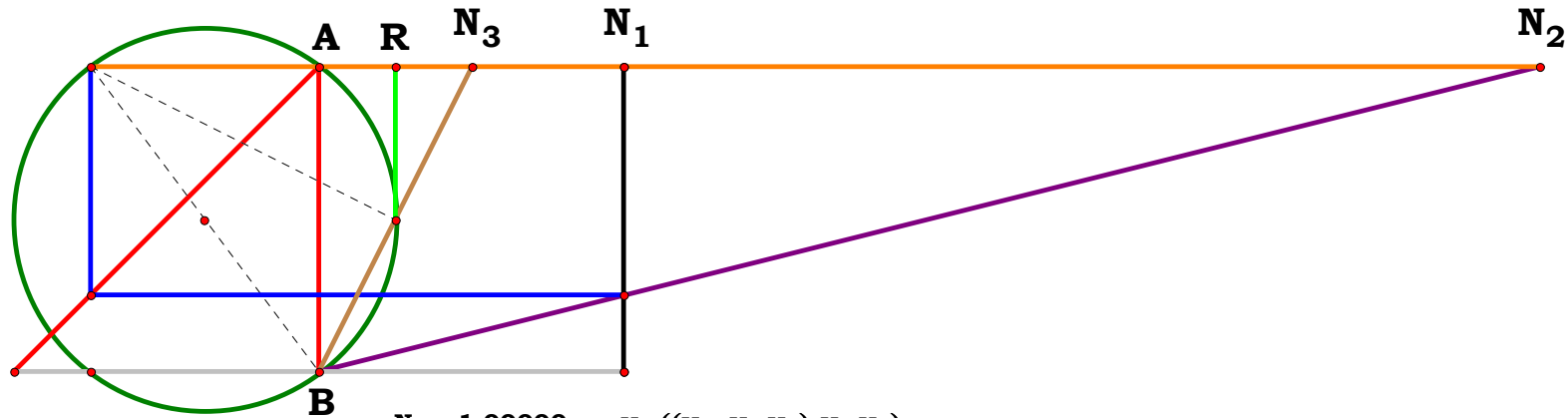
$$R - \frac{N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

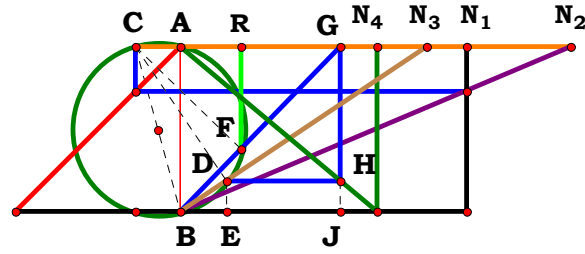
$$R - \frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{A \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot Z \cdot p - Y \cdot Z \cdot o + Y \cdot o \cdot q)}{[Y \cdot o \cdot (Z^2 + q^2)]} = 0$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 4.00000 \\ N_3 &= 0.50000 \\ R &= 0.25000 \end{aligned} \quad \frac{N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} - R = 0.00000$$



$N_1 = 1.73116$
 $N_2 = 2.36074$
 $N_3 = 1.49375$
 $N_4 = 1.19112$
 $R = 0.37056$

Unit. $AB := 1$ Given. $N_1 := 1.73116$ $N_2 := 2.36074$ $N_3 := 1.49375$ $N_4 := 1.19112$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := AB \cdot \left(\frac{BN_3 - EN_3}{BN_3} \right) \quad AG := N_4 \cdot (AB - EF)$$

$$BG := \sqrt{AG^2 + AB^2} \quad CG := AG + AC$$

$$FG := \frac{AG \cdot CG}{BG} \quad R := AG \cdot \left(\frac{BG - FG}{BG} \right)$$

$R = 0.370564$

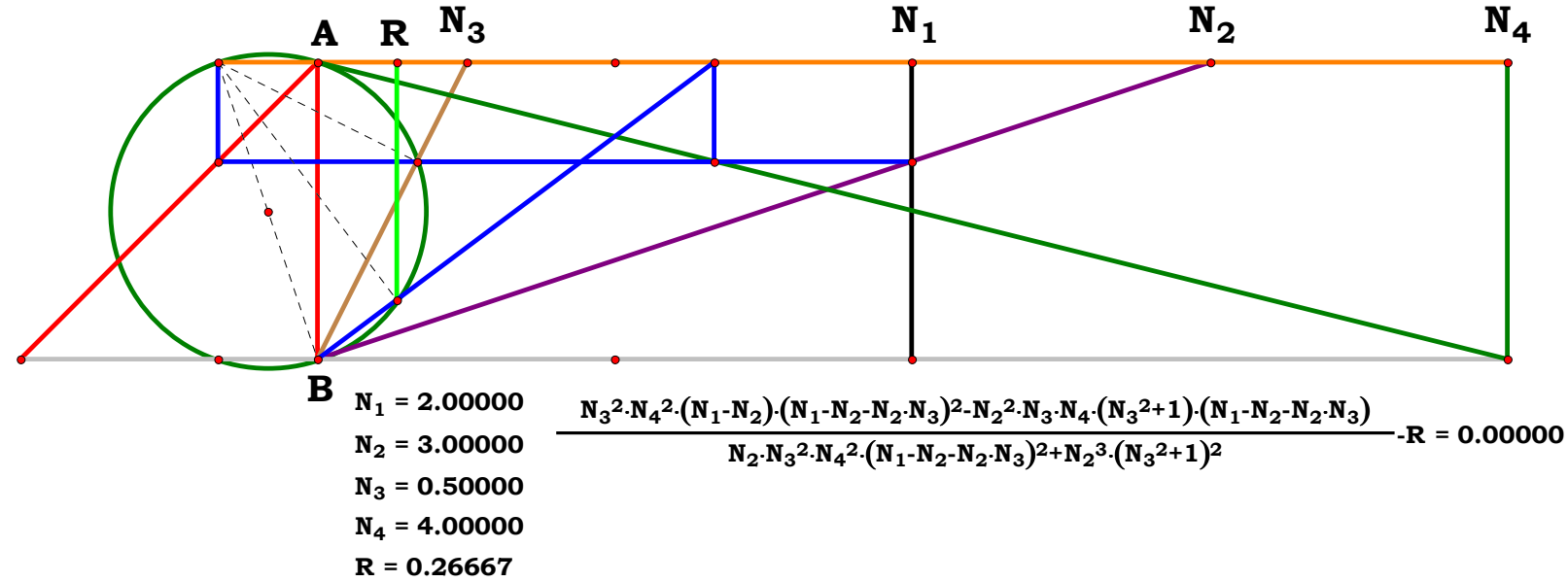
Definitions.

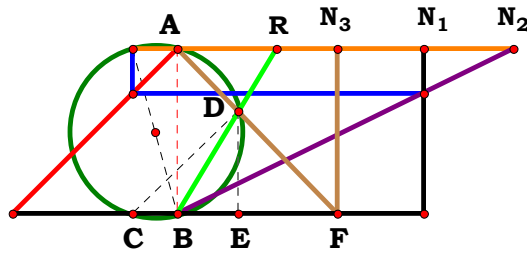
$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3) \cdot (N_3^2 - AC \cdot N_3^2 \cdot N_4 - AC^2 \cdot N_3 \cdot N_4 + 1)}{AC^2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot AC \cdot N_3^3 \cdot N_4^2 + N_3^4 \cdot N_4^2 + N_3^4 + 2 \cdot N_3^2 + 1} = 0$$

$$R - \frac{N_3^2 \cdot N_4^2 \cdot (N_1 - N_2) \cdot (N_1 - N_2 - N_2 \cdot N_3)^2 - N_2^2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2 - N_2 \cdot N_3)}{N_2 \cdot N_3^2 \cdot N_4^2 \cdot (N_1 - N_2 - N_2 \cdot N_3)^2 + N_2^3 \cdot (N_3^2 + 1)^2} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u] \cdot [A^2 \cdot (C^2 + N_u^2) \cdot D + N_u^2 \cdot (B - A) \cdot [C \cdot (A - B) + A \cdot N_u]]}{D^2 \cdot A^3 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot n \cdot o - X \cdot Y \cdot m - X \cdot m \cdot o) \cdot [Z \cdot Y \cdot (W \cdot n - X \cdot m) \cdot (W \cdot n \cdot o - X \cdot Y \cdot m - X \cdot m \cdot o) - (p \cdot X^2 \cdot Y^2 \cdot m^2 + p \cdot X^2 \cdot m^2 \cdot o^2)]}{m \cdot X \cdot [Z^2 \cdot Y^2 \cdot (W \cdot n \cdot o - X \cdot Y \cdot m - X \cdot m \cdot o)^2 + X^2 \cdot m^2 \cdot p^2 \cdot (Y^2 + o^2)^2]} = 0$$





$N_1 = 1.48902$
 $N_2 = 2.03142$
 $N_3 = 0.97071$
 $R = 0.59853$

Unit. $AB := 1$ Given. $N_1 := 1.48902$ $N_2 := 2.03142$ $N_3 := .97071$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$
 $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$BC := \frac{N_2 - N_1}{N_2} \quad AF := \sqrt{N_3^2 + AB^2}$$

$$CF := N_3 + BC \quad DF := \frac{N_3 \cdot CF}{AF}$$

$$BE := \frac{N_3 \cdot (AF - DF)}{AF} \quad R := \frac{AF \cdot BE}{DF}$$

$R = 0.598534$

Definitions.

$$R - \left(\frac{BC^2 + 1}{BC + N_3} - BC \right) = 0$$

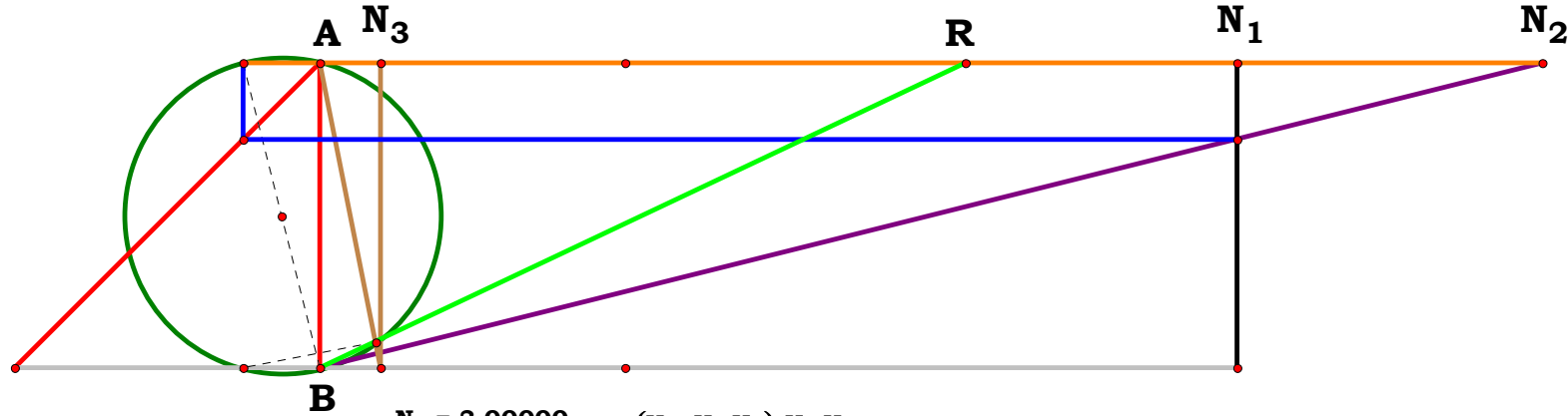
$$R - \frac{N_2 + N_1 \cdot N_3 - N_2 \cdot N_3}{N_2 - N_1 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot C + N_u \cdot (B - A)}{C \cdot (A - B) + A \cdot N_u} = 0$$

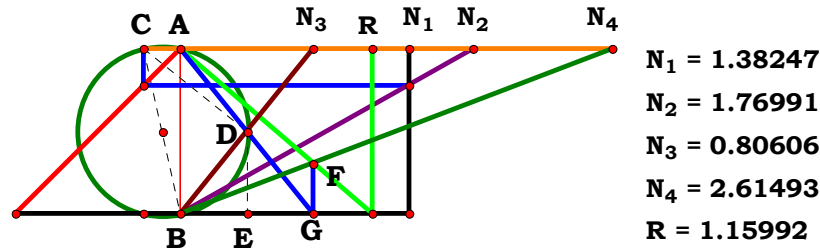
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Z \cdot p - Y \cdot Z \cdot o + Y \cdot o \cdot q}{Y \cdot Z \cdot o - X \cdot p \cdot q + Y \cdot o \cdot q} = 0$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 0.20000$
 $R = 2.11111$

$$\frac{(N_2 + N_1 \cdot N_3) - N_2 \cdot N_3}{(N_2 - N_1) + N_2 \cdot N_3} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 1.76991$ $N_3 := .80606$ $N_4 := 2.61493$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$BG := \frac{BE \cdot BN_3}{DN_3} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$R := \frac{BG \cdot AB}{AB - FG} \quad R = 1.159894$$

Definitions.

$$R - \frac{N_4 - AC \cdot N_3 \cdot N_4}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

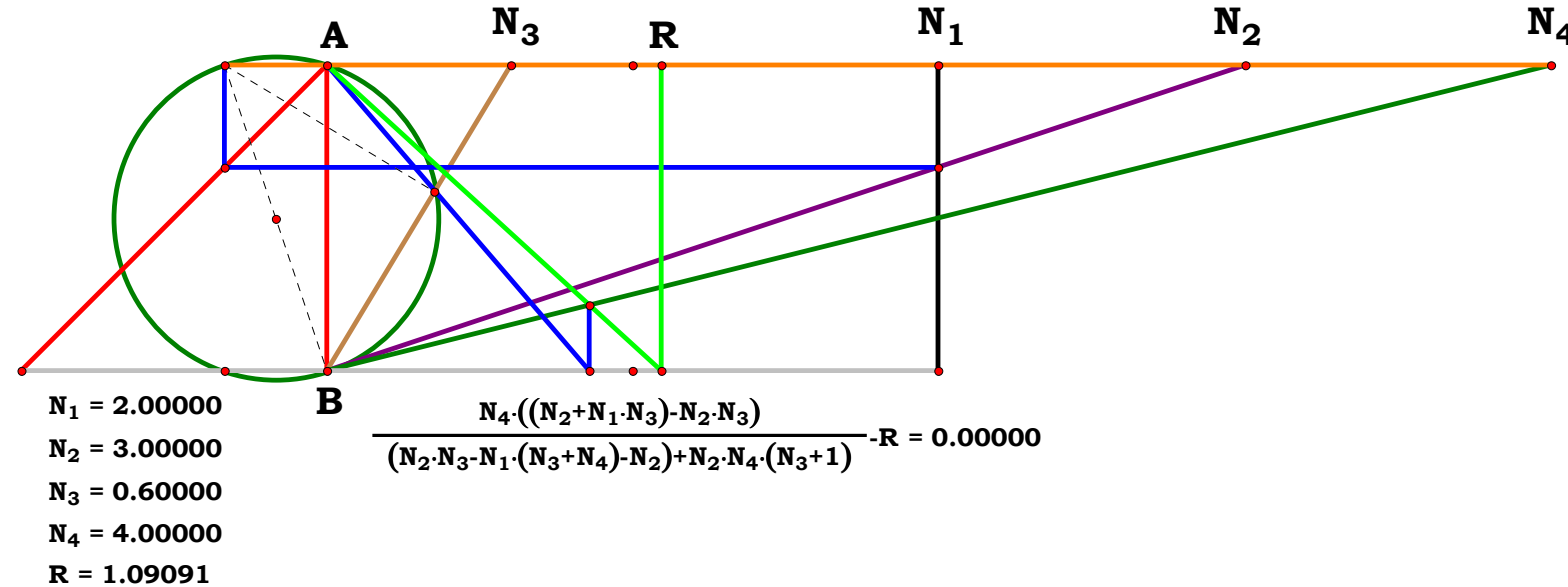
$$R - \frac{N_4 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2 \cdot N_3 - N_1 \cdot (N_3 + N_4) - N_2 + N_2 \cdot N_4 \cdot (N_3 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D} = 0$$

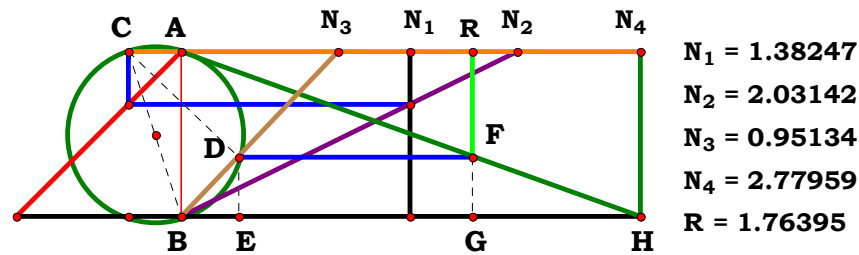
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o)}{X \cdot m \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p) - W \cdot n \cdot (Y \cdot p + Z \cdot o)} = 0$$





4RST1AB6R5



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .95134$ $N_4 := 2.77959$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_3 := AC + N_3$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{CN_3 \cdot N_3}{BN_3}$$

$$BD := BN_3 - DN_3 \quad DE := \frac{AB \cdot BD}{BN_3}$$

$$R := N_4 \cdot (AB - DE) \quad R = 1.763951$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{N_3^2 + 1} = 0$$

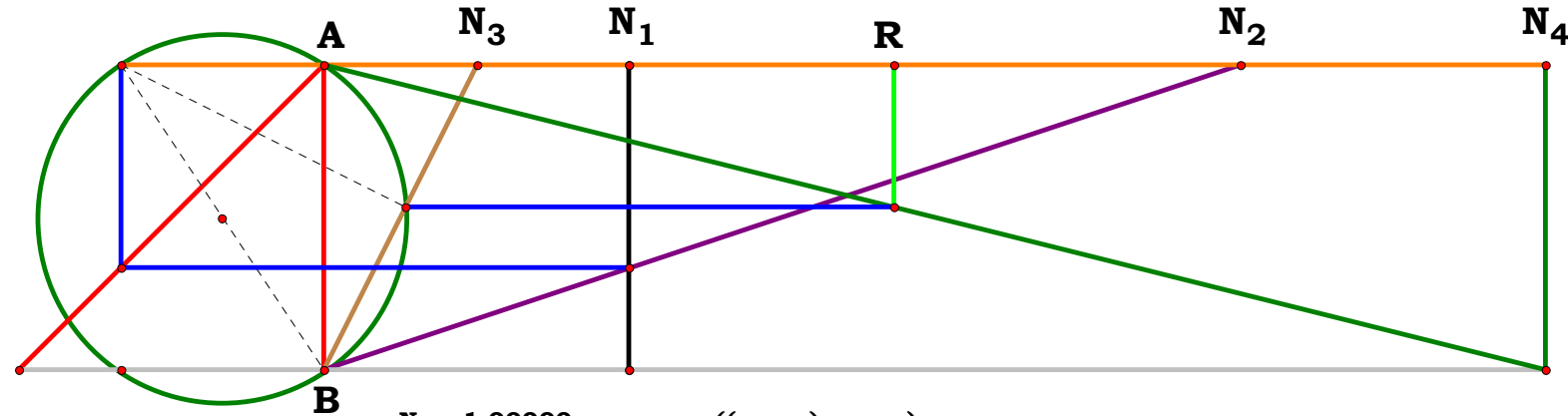
$$R - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1 + N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

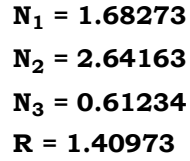
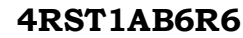
$$R - \frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{A \cdot D \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Y \cdot m - W \cdot n \cdot o + X \cdot m \cdot o)}{p \cdot (X \cdot m \cdot Y^2 + X \cdot m \cdot o^2)} = 0$$



$$\frac{N_3 \cdot N_4 \cdot ((N_2 - N_1) + N_2 \cdot N_3)}{N_2 \cdot (N_3^2 + 1)} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

X := 20

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{CN}_3 := \mathbf{AC} + \mathbf{N}_3$$

$$\mathbf{BD} := \mathbf{BN}_3 - \mathbf{DN}_3 \quad \mathbf{DE} := \frac{\mathbf{AB} \cdot \mathbf{BD}}{\mathbf{BN}_3}$$

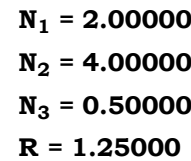
$$\mathbf{R} := \frac{\mathbf{BG} \cdot \mathbf{AB}}{\mathbf{DE}} \qquad \mathbf{R} = 1.40973$$

$$\mathbf{R} - \frac{\mathbf{N}_3^2 + 1}{\mathbf{AC} + \mathbf{N}_3} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

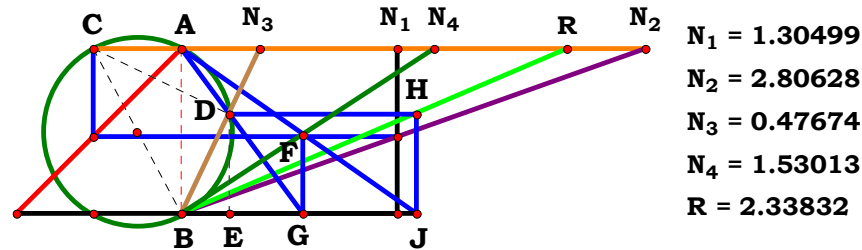
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)}{\mathbf{q} \cdot (\mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q})} = 0$$



$$\frac{N_2 \cdot (N_3^2 + 1)}{(N_2 - N_1) + N_2 \cdot N_3} \cdot R = 0.00000$$



4RST1AB6R7



$N_1 = 1.30499$
 $N_2 = 2.80628$
 $N_3 = 0.47674$
 $N_4 = 1.53013$
 $R = 2.33832$

Unit. $AB := 1$ Given. $N_1 := 1.30499$ $N_2 := 2.80628$ $N_3 := .47674$ $N_4 := 1.53013$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$DN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BD := BN_3 - DN_3 \quad BE := \frac{N_3 \cdot BD}{BN_3}$$

$$DE := \frac{AB \cdot BD}{BN_3} \quad BG := \frac{BE \cdot AB}{AB - DE} \quad FG := \frac{AB \cdot BG}{N_4}$$

$$BJ := \frac{BG}{AB - FG} \quad R := \frac{BJ \cdot AB}{DE} \quad R = 2.338314$$

Definitions.

$$R - \frac{N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 + AC \cdot N_4 + N_3 \cdot N_4 - 1} = 0$$

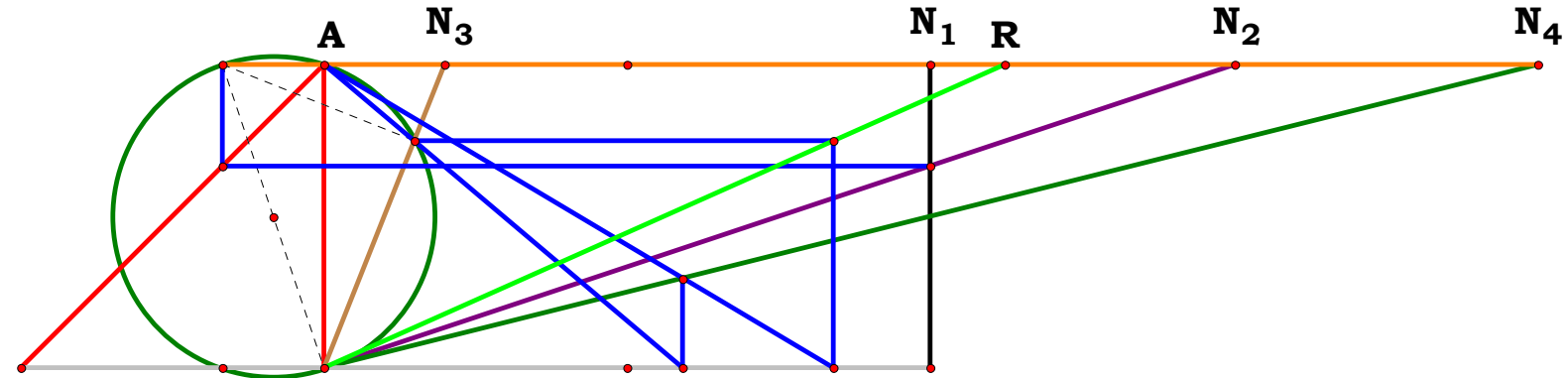
$$R - \frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{N_2 \cdot N_3 - N_1 \cdot (N_3 + N_4) - N_2 + N_2 \cdot N_4 \cdot (N_3 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot [A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D]} = 0$$

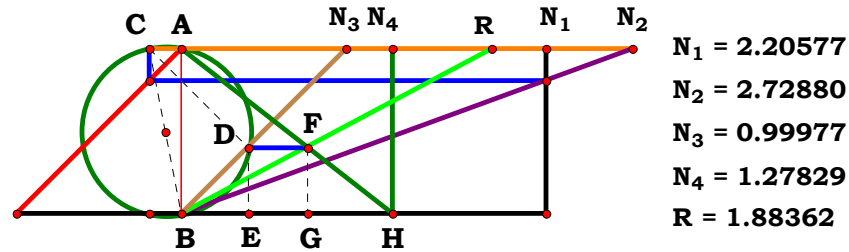
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot (Y^2 + o^2)}{o \cdot [X \cdot m \cdot (Y \cdot Z + Y \cdot p + Z \cdot o - o \cdot p) - W \cdot n \cdot (Y \cdot p + Z \cdot o)]} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.40000$
 $N_4 = 4.00000$
 $R = 2.24516$

$$\frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{(N_2 \cdot N_3 - N_1 \cdot (N_3 + N_4) - N_2) + N_2 \cdot N_4 \cdot (N_3 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.20577$ $N_2 := 2.72880$ $N_3 := .99977$ $N_4 := 1.27829$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad BG := N_4 \cdot (AB - DE)$$

$$R := \frac{BG \cdot AB}{DE} \quad R = 1.883604$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC + N_3)}{(1 - AC \cdot N_3)} = 0$$

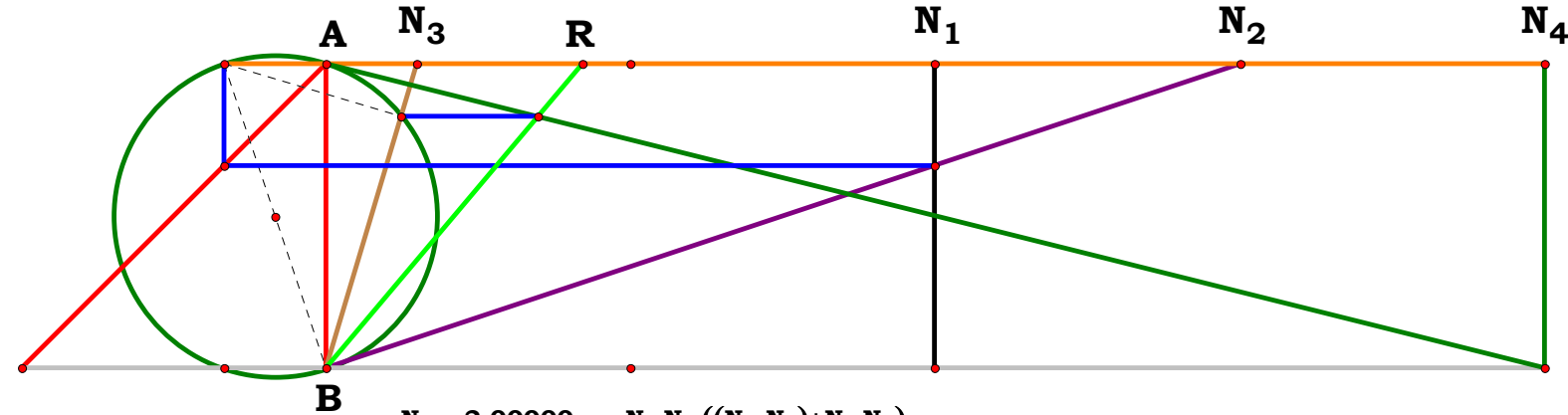
$$R - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1 + N_2 \cdot N_3)}{N_2 + N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

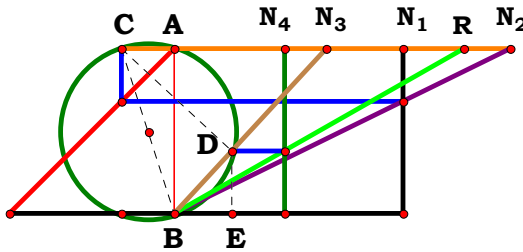
$$R - \frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{D \cdot [A \cdot C^2 + C \cdot N_u \cdot (B - A)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Y \cdot m - W \cdot n \cdot o + X \cdot m \cdot o)}{p \cdot o \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o)} = 0$$



$$\frac{N_3 \cdot N_4 \cdot ((N_2 - N_1) + N_2 \cdot N_3)}{(N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.92228$
 $N_4 = 0.66809$
 $R = 1.75280$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .92228$ $N_4 := .66809$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad DN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$DE := \frac{AB \cdot (BN_3 - DN_3)}{BN_3} \quad R := \frac{N_4}{DE}$$

$R = 1.752789$

Definitions.

$$R - \frac{-N_4 \cdot (N_3^2 + 1)}{AC \cdot N_3 - 1} = 0$$

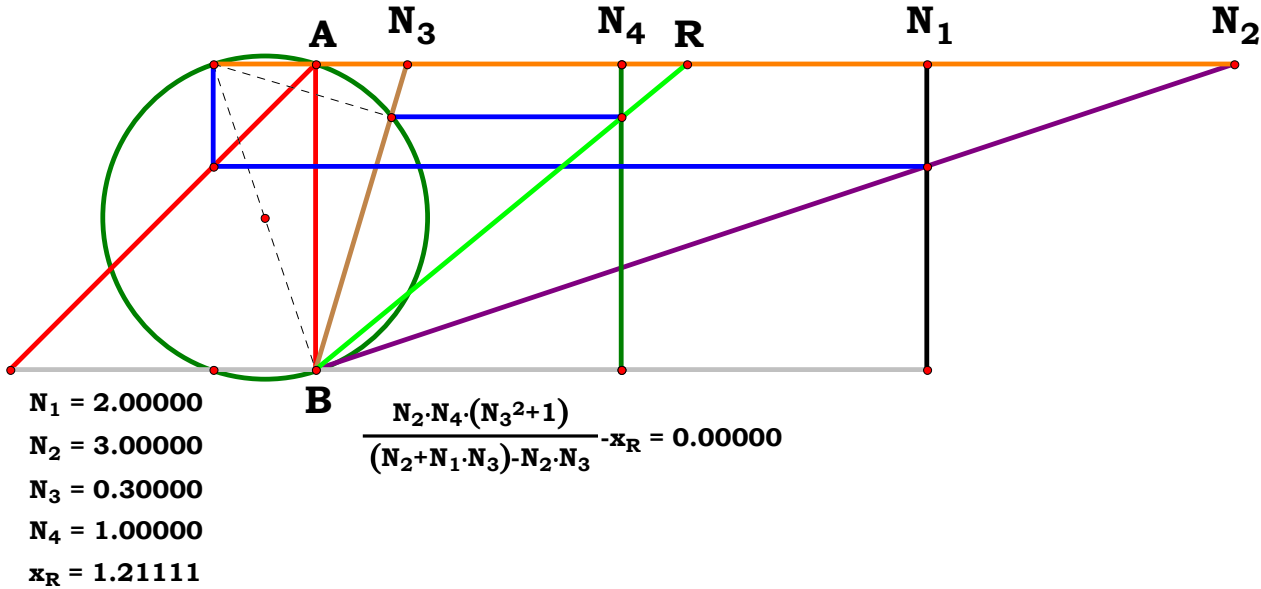
$$R - \frac{N_2 \cdot N_4 \cdot (N_3^2 + 1)}{N_2 + N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

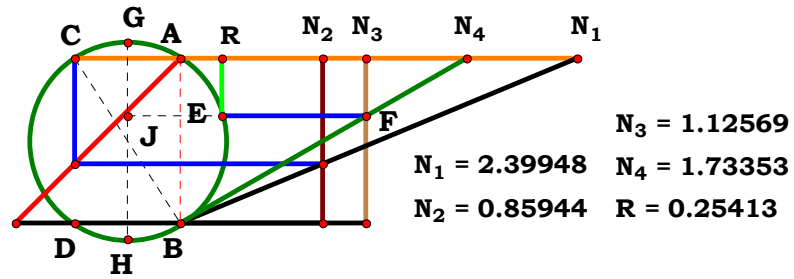
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot (Y^2 + o^2)}{p \cdot o \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o)} = 0$$




$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{GH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{GJ} := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} + \frac{\mathbf{GH} - \mathbf{AB}}{2}$$

$$\mathbf{EJ} := \sqrt{\mathbf{GJ} \cdot (\mathbf{GH} - \mathbf{GJ})}$$

$$\mathbf{R} := \mathbf{EJ} - \frac{\mathbf{AC}}{2} \quad \mathbf{R} = 0.254132$$

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot \sqrt{N_4^2}}{2 \cdot \sqrt{N_4^2}} = 0$$

$$R - \frac{N_2 \cdot N_4 - N_1 \cdot N_4 + \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + A \cdot C - B \cdot C}{2 \cdot B \cdot C} = 0$$

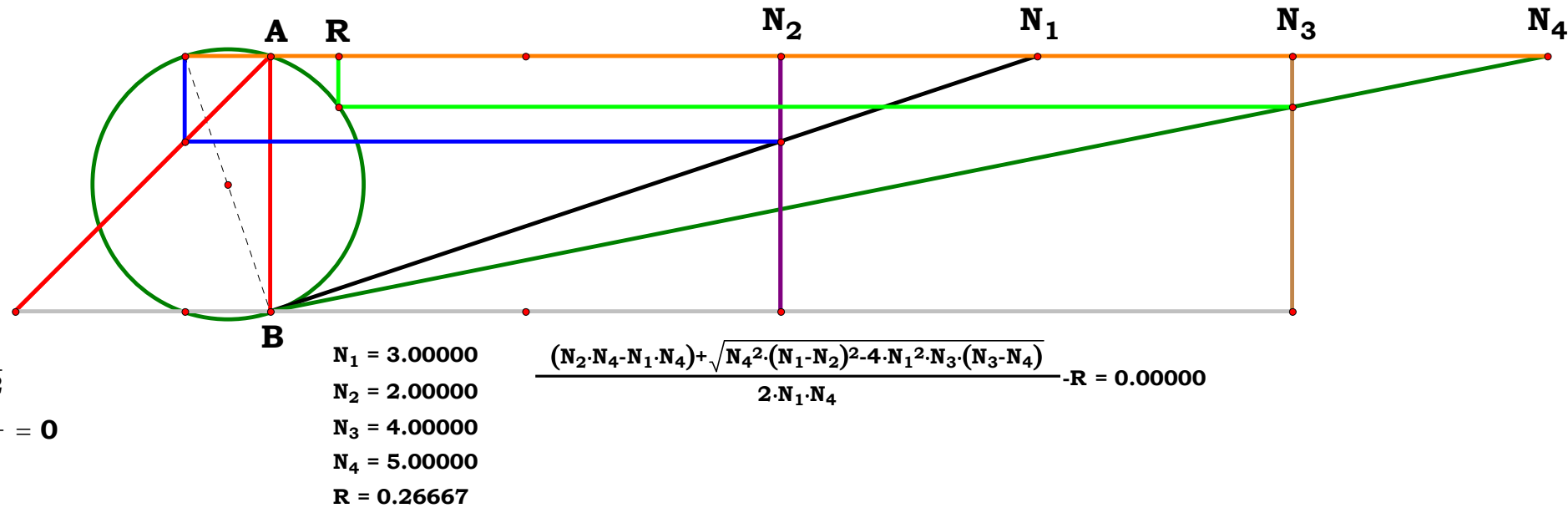
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})^2 + 4 \cdot \mathbf{W}^2 \cdot \mathbf{Y} \cdot \mathbf{n}^2 \cdot \mathbf{p} \cdot (\mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{p}) - \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o} + \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{o}}}{2 \cdot \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o}} = 0$$

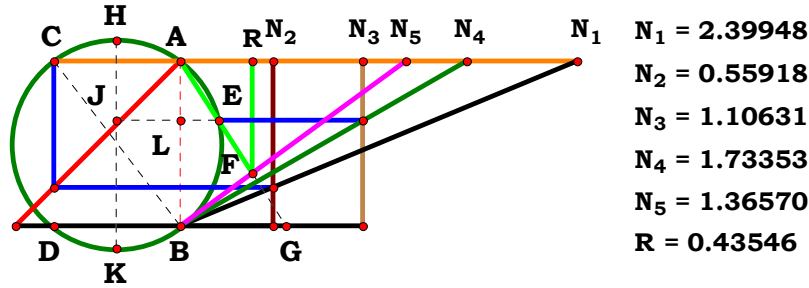
Unit. AB := 1 **Given.** $N_1 := 2.39948$ $N_2 := .85944$ $N_3 := 1.12569$ $N_4 := 1.73353$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$



$$\frac{(N_2 \cdot N_4 - N_1 \cdot N_4) + \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := .55918$ $N_3 := 1.10631$

$N_4 := 1.73352$ $N_5 := 1.36570$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad HK := \sqrt{AB^2 + AC^2}$$

$$AL := \frac{N_4 - N_3}{N_4} \quad HJ := AL + \frac{HK - AB}{2}$$

$$EJ := \sqrt{HJ \cdot (HK - HJ)} \quad BG := \frac{\left(EJ - \frac{AC}{2}\right) \cdot AB}{AL}$$

$$R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.435456$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}\right)}{\sqrt{N_4^2} \cdot \left(AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5\right) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}} = 0$$

$$R - \frac{N_5 \cdot \left[N_1 \cdot N_4 - N_2 \cdot N_4 - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}\right]}{N_1 \cdot N_4 - N_2 \cdot N_4 - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)} + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4)} = 0$$

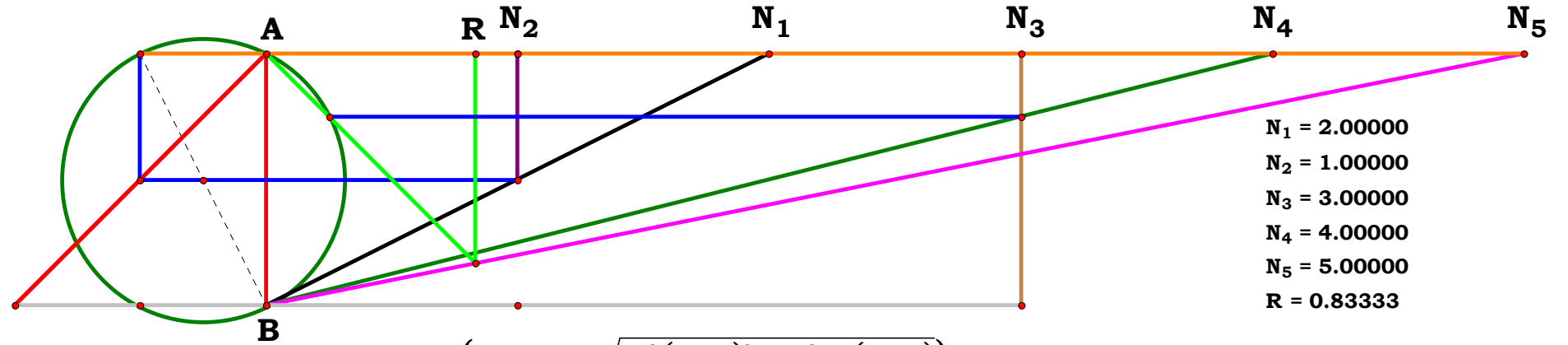
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)\right]}{E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D)} = 0$$

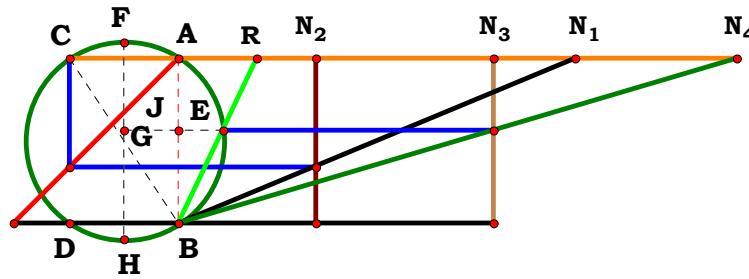
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[V \cdot Y \cdot m \cdot n - \sqrt{Y^2 \cdot n^2 \cdot (V \cdot m - W \cdot l)^2 + 4 \cdot V^2 \cdot X \cdot m^2 \cdot o \cdot (Y \cdot n - X \cdot o)} - W \cdot Y \cdot l \cdot n\right]}{2 \cdot V \cdot X \cdot Z \cdot m \cdot o - p \cdot \sqrt{Y^2 \cdot n^2 \cdot (V \cdot m - W \cdot l)^2 + 4 \cdot V^2 \cdot X \cdot m^2 \cdot o \cdot (Y \cdot n - X \cdot o)} - Y \cdot n \cdot (2 \cdot V \cdot Z \cdot m - V \cdot m \cdot p + W \cdot l \cdot p)} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$$\frac{N_5 \cdot (N_1 \cdot N_4 - N_2 \cdot N_4 - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)})}{((N_1 \cdot N_4 - N_2 \cdot N_4) + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4)) - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} - R = 0.00000$$



$$\begin{aligned} N_1 &:= 2.39948 \\ N_2 &:= 0.83038 \\ N_3 &:= 1.91023 \\ N_4 &:= 3.38011 \\ R &:= 0.47225 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 2.39948 & N_2 &:= .83038 & N_3 &:= 1.91023 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & C &:= \frac{N_u}{N_3} & D &:= \frac{N_u}{N_4} & N_4 &:= 3.38011 \\ W &:= 20 & X &:= 19 & Y &:= 18 & Z &:= 17 & m &:= \frac{W}{N_1} & n &:= \frac{X}{N_2} & o &:= \frac{Y}{N_3} & p &:= \frac{Z}{N_4} \end{aligned}$$

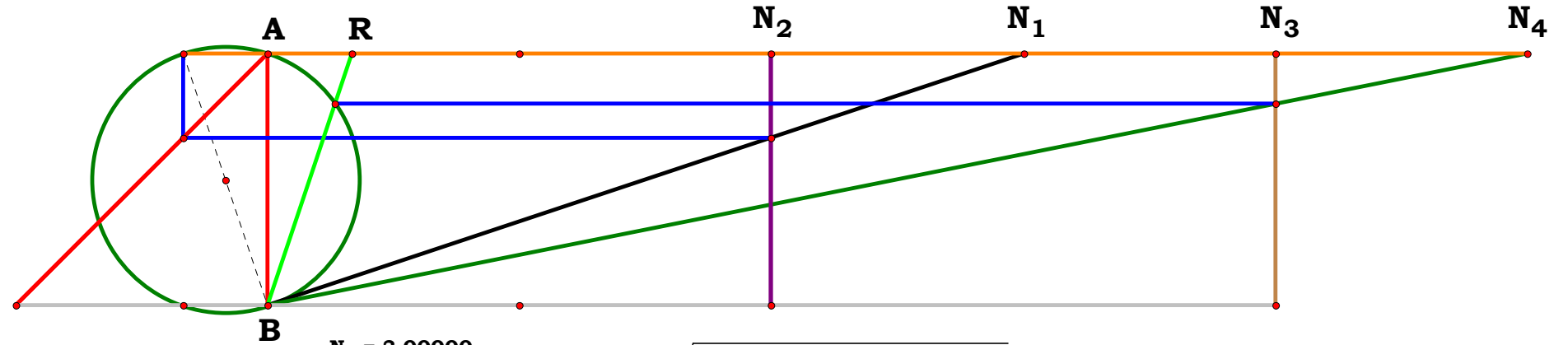
Descriptions.

$$\begin{aligned} AC &:= \frac{N_1 - N_2}{N_1} & AE &:= \frac{N_4 - N_3}{N_4} & BE &:= AB - AE \\ FH &:= \sqrt{AB^2 + AC^2} & FG &:= AE + \frac{FH - AB}{2} \\ EG &:= \sqrt{FG \cdot (FH - FG)} & EJ &:= EG - \frac{AC}{2} & R &:= \frac{EJ \cdot AB}{BE} \end{aligned}$$

$$R = 0.472254$$

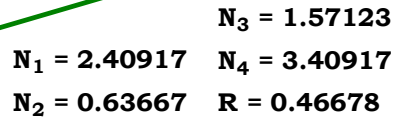
Definitions.

$$\begin{aligned} R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} &= 0 \\ R - \frac{N_2 \cdot N_4 - N_1 \cdot N_4 + \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot N_3} &= 0 \\ N_1 - \frac{N_u}{A} = 0 & N_2 - \frac{N_u}{B} = 0 & N_3 - \frac{N_u}{C} = 0 & N_4 - \frac{N_u}{D} = 0 \\ R - \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)}{2 \cdot B \cdot D} &= 0 \\ N_1 - \frac{W}{m} = 0 & N_2 - \frac{X}{n} = 0 & N_3 - \frac{Y}{o} = 0 & N_4 - \frac{Z}{p} = 0 \\ R - \frac{\sqrt{W^2 \cdot n^2 \cdot (4 \cdot Y \cdot Z \cdot o \cdot p - 4 \cdot Y^2 \cdot p^2 + Z^2 \cdot o^2)} + X \cdot Z^2 \cdot m \cdot o^2 \cdot (X \cdot m - 2 \cdot W \cdot n) - Z \cdot o \cdot (W \cdot n - X \cdot m)}{2 \cdot W \cdot Y \cdot n \cdot p} &= 0 \end{aligned}$$



$$\begin{aligned} N_1 &:= 3.00000 \\ N_2 &:= 2.00000 \\ N_3 &:= 4.00000 \\ N_4 &:= 5.00000 \\ R &:= 0.33333 \end{aligned}$$

$$\frac{(N_2 \cdot N_4 - N_1 \cdot N_4) + \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot N_3} - R = 0.00000$$


$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AC} := \frac{N_1 - N_2}{N_1} \quad \mathbf{AJ} := \frac{N_4 - N_3}{N_4}$$

$$\mathbf{EG} := \sqrt{\mathbf{FG} \cdot (\mathbf{FH} - \mathbf{FG})} \quad \mathbf{EJ} := \mathbf{EG} - \frac{\mathbf{AC}}{2}$$

$$R - \frac{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{2 \cdot (N_3 - N_4) \cdot \sqrt{N_4^2}} = 0$$

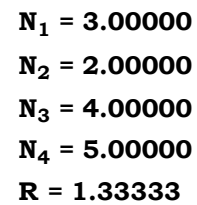
$$R - \frac{N_1 \cdot N_4 - N_2 \cdot N_4 - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

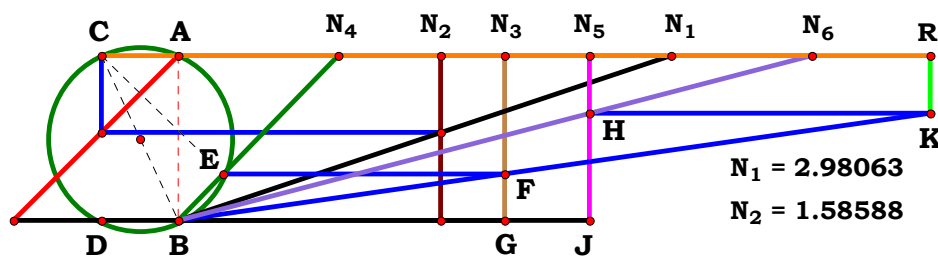
$$R - \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)}{2 \cdot B \cdot (C - D)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})^2 + 4 \cdot \mathbf{W}^2 \cdot \mathbf{Y} \cdot \mathbf{n}^2 \cdot \mathbf{p} \cdot (\mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{p})} - \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})}{2 \cdot \mathbf{W} \cdot \mathbf{n} \cdot (\mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{p})} = 0$$



$$\frac{N_1 \cdot N_4 \cdot N_2 \cdot N_4 \cdot \sqrt{N_4^2 \cdot (N_1 - N_2)^2 \cdot 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot (N_3 - N_4)} - R = 0.00000$$



$N_3 = 1.97804$
 $N_4 = 0.96835$
 $N_5 = 2.48925$
 $N_6 = 3.83557$
 $R = 4.54856$

Unit. $AB := 1$ Given. $N_1 := 2.98063$ $N_2 := 1.58588$ $N_3 := 1.97804$

$N_4 := .96835$ $N_5 := 2.48925$ $N_6 := 3.83557$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad HN_5 := \frac{N_6 - N_5}{N_6} \quad HJ := AB - HN_5$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad CN_4 := N_4 + AC$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BE := BN_4 - EN_4$$

$$FG := \frac{AB \cdot BE}{BN_4} \quad R := \frac{N_3 \cdot HJ}{FG} \quad R = 4.548568$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 - AC \cdot N_4 \cdot N_6} = 0$$

$$R - \frac{N_1 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 \cdot (N_1 - N_1 \cdot N_4 + N_2 \cdot N_4)} = 0$$

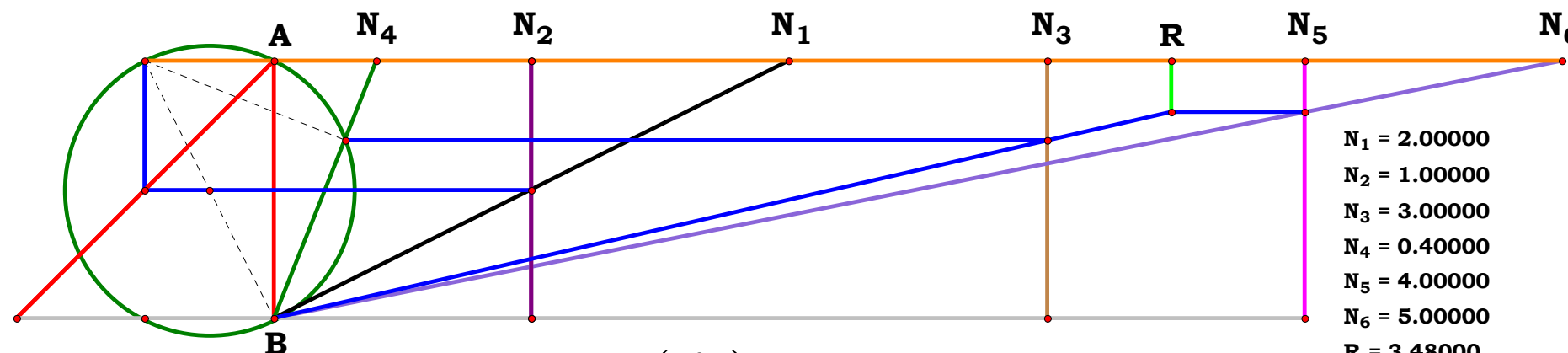
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{B \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot E \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{1} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

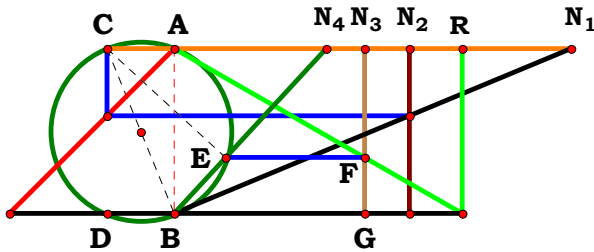
$$R - \frac{U \cdot W \cdot Y \cdot 1 \cdot p \cdot (X^2 + n^2)}{U \cdot Z \cdot 1 \cdot m \cdot n \cdot o \cdot (n - X) + V \cdot X \cdot Z \cdot k \cdot m \cdot n \cdot o} = 0$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad 1 := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



$N_1 = 2.00000$
 $N_2 = 1.00000$
 $N_3 = 3.00000$
 $N_4 = 0.40000$
 $N_5 = 4.00000$
 $N_6 = 5.00000$
 $R = 3.48000$

$$\frac{N_1 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 \cdot ((N_1 - N_1 \cdot N_4) + N_2 \cdot N_4)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 2.39948 \\ N_2 &= 1.42122 \\ N_3 &= 1.15474 \\ N_4 &= 0.91992 \\ R &= 1.74563 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.39948 \quad N_2 := 1.42122 \quad N_3 := 1.15474 \quad N_4 := .91992$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$FN_3 := \frac{AB \cdot EN_4}{BN_4} \quad R := \frac{N_3 \cdot AB}{FN_3}$$

$$R = 1.745632$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (AC + N_4)} = 0$$

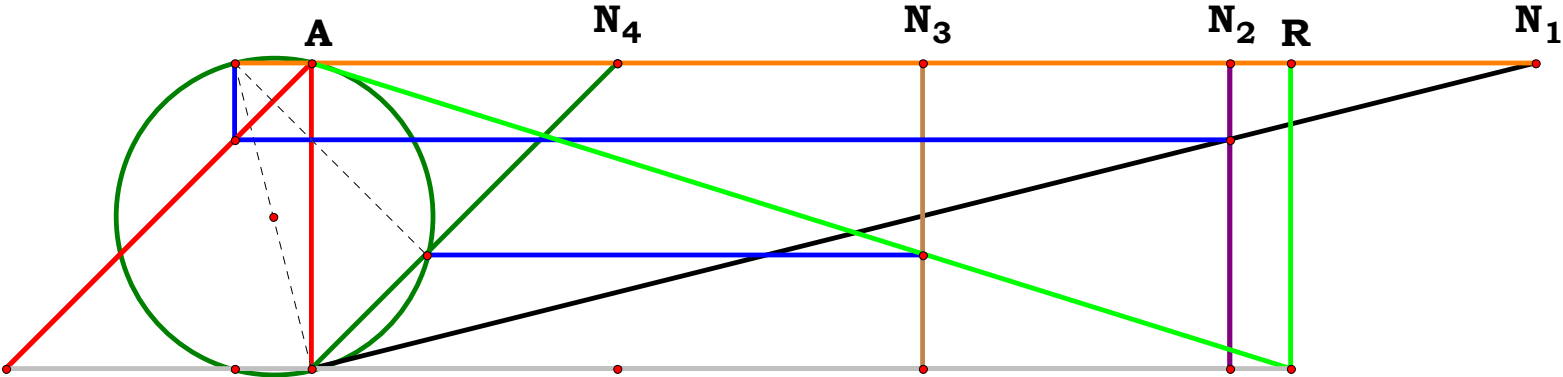
$$R - \frac{N_1 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (N_1 - N_2 + N_1 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot (D^2 + N_u^2)}{C \cdot D \cdot (B - A) + B \cdot C \cdot N_u} = 0$$

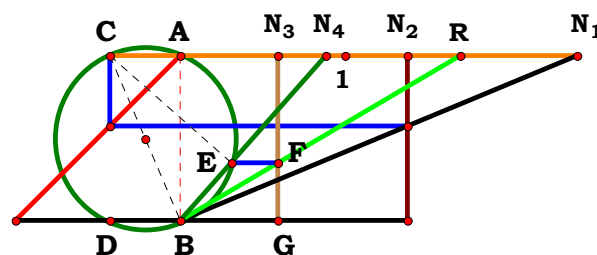
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot n \cdot (Z^2 + p^2)}{W \cdot Z \cdot n \cdot o \cdot (Z + p) - X \cdot Z \cdot m \cdot o \cdot p} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 3.00000 \\ N_3 &= 2.00000 \\ N_4 &= 1.00000 \\ R &= 3.20000 \end{aligned}$$

$$\frac{N_1 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot ((N_1 - N_2) + N_1 \cdot N_4)} - R = 0.00000$$



Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := 1.37279$ $N_3 := .59297$ $N_4 := .88118$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{CN}_4 := \mathbf{N}_4 + \mathbf{AC}$$

$$\mathbf{BN}_4 := \sqrt{\mathbf{N}_4^2 + \mathbf{AB}^2} \quad \mathbf{EN}_4 := \frac{\mathbf{N}_4 \cdot \mathbf{CN}_4}{\mathbf{BN}_4}$$

$$\mathbf{BE} := \mathbf{BN}_4 - \mathbf{EN}_4 \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{BN}_4}{\mathbf{BE}}$$

R = 1.690955

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{1 - AC \cdot N_4} = 0$$

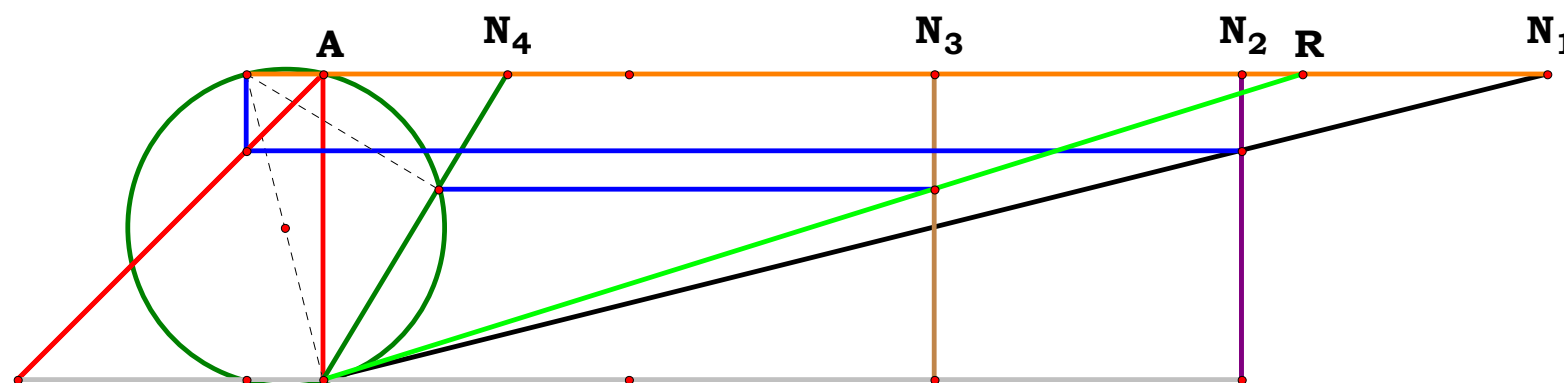
$$R - \frac{N_1 \cdot N_3 \cdot (N_4^2 + 1)}{N_1 - N_1 \cdot N_4 + N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

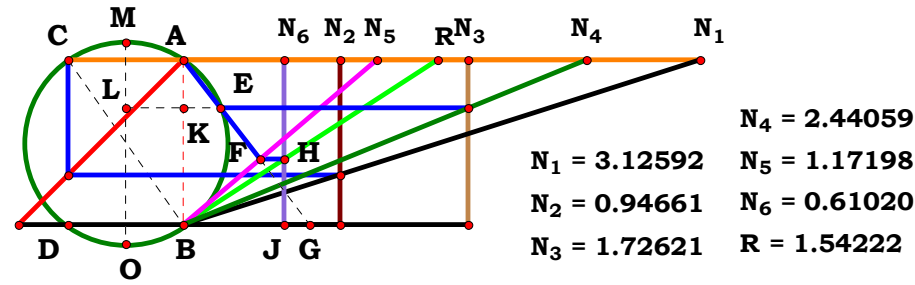
$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D}^2 + \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})} = \mathbf{0}$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} \cdot (\mathbf{Z}^2 + \mathbf{p}^2)}{\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} \cdot \mathbf{p} \cdot (\mathbf{p} - \mathbf{Z}) + \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{o} \cdot \mathbf{p}} = 0$$



$$\begin{array}{l} \mathbf{N}_1 = 4.00000 \\ \mathbf{N}_2 = 3.00000 \\ \mathbf{N}_3 = 2.00000 \\ \mathbf{N}_4 = 0.60000 \\ \mathbf{R} = 3.20000 \end{array} \quad \mathbf{B} \quad \frac{\mathbf{N}_1 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_4^2 + 1)}{(\mathbf{N}_1 \cdot \mathbf{N}_1 \cdot \mathbf{N}_4) + \mathbf{N}_2 \cdot \mathbf{N}_4} \cdot \mathbf{R} = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3.12592$ $N_2 := .94661$ $N_3 := 1.72621$
 $N_4 := 2.44059$ $N_5 := 1.17198$ $N_6 := .61020$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

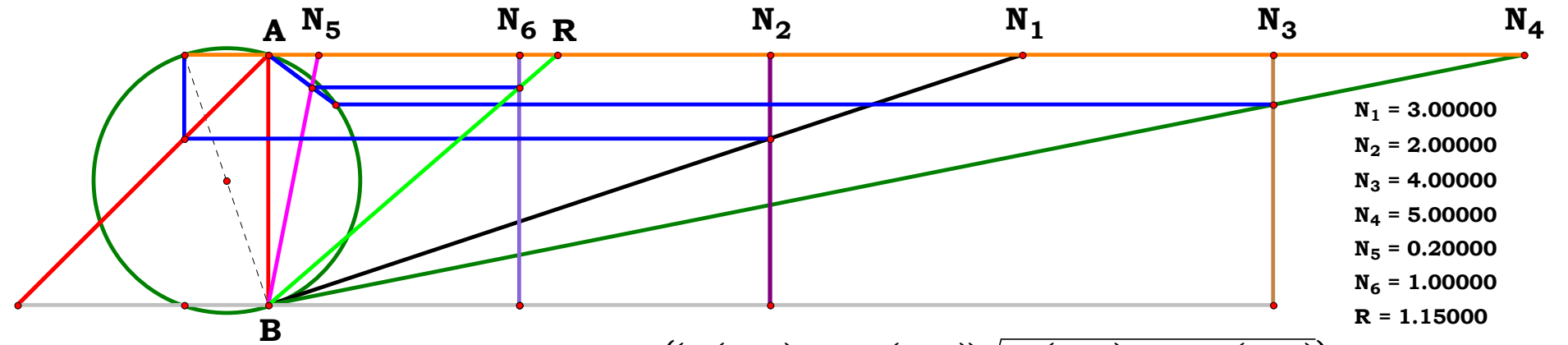
$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$AC := \frac{N_1 - N_2}{N_1} \quad AK := \frac{N_4 - N_3}{N_4} \quad MO := \sqrt{AB^2 + AC^2}$$

$$ML := AK + \frac{MO - AB}{2} \quad EL := \sqrt{ML \cdot (MO - ML)}$$

$$EK := EL - \frac{AC}{2} \quad BG := \frac{EK \cdot AB}{AK} \quad HJ := \frac{BG}{BG + N_5}$$

$$R := \frac{N_6}{HJ} \quad R = 1.542204$$



$$\frac{N_6 \cdot ((N_4 \cdot (N_1 - N_2) + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4)) - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)})}{N_4 \cdot (N_1 - N_2) - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} - R = 0.00000$$

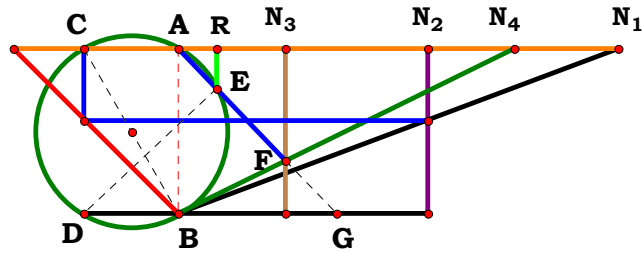
$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2 \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5)} - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right]}{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)} = 0$$

$$R - \frac{N_6 \cdot \left[N_4 \cdot (N_1 - N_2) + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4) - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)} \right]}{N_4 \cdot (N_1 - N_2) - \sqrt{N_4^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right]} = 0 \quad N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[o \cdot \sqrt{X^2 \cdot m^2 \cdot (U \cdot l - V \cdot k)^2 + 4 \cdot U^2 \cdot W \cdot l^2 \cdot n \cdot (X \cdot m - W \cdot n)} - 2 \cdot U \cdot Y \cdot l \cdot (W \cdot n - X \cdot m) - X \cdot m \cdot o \cdot (U \cdot l - V \cdot k) \right]}{o \cdot p \cdot \left[\sqrt{X^2 \cdot m^2 \cdot (U \cdot l - V \cdot k)^2 + 4 \cdot U^2 \cdot W \cdot l^2 \cdot n \cdot (X \cdot m - W \cdot n)} - X \cdot m \cdot (U \cdot l - V \cdot k) \right]} = 0$$



$$\begin{aligned} N_1 &= 2.66100 \\ N_2 &= 1.50839 \\ N_3 &= 0.65108 \\ N_4 &= 2.03379 \\ R &= 0.22836 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.66100 \quad N_2 := 1.50839 \quad N_3 := .65108 \quad N_4 := 2.03379$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad FN_3 := \frac{N_4 - N_3}{N_4} \quad AF := \sqrt{N_3^2 + FN_3^2}$$

$$AG := \frac{AF \cdot AB}{FN_3} \quad BG := \frac{N_3 \cdot AB}{FN_3} \quad DG := BG + AC$$

$$EG := \frac{N_3 \cdot DG}{AF} \quad AE := AG - EG$$

$$R := \frac{N_3 \cdot AE}{AF} \quad R = 0.228362$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_4 - N_3 - AC \cdot N_3 \cdot N_4)}{N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2} = 0$$

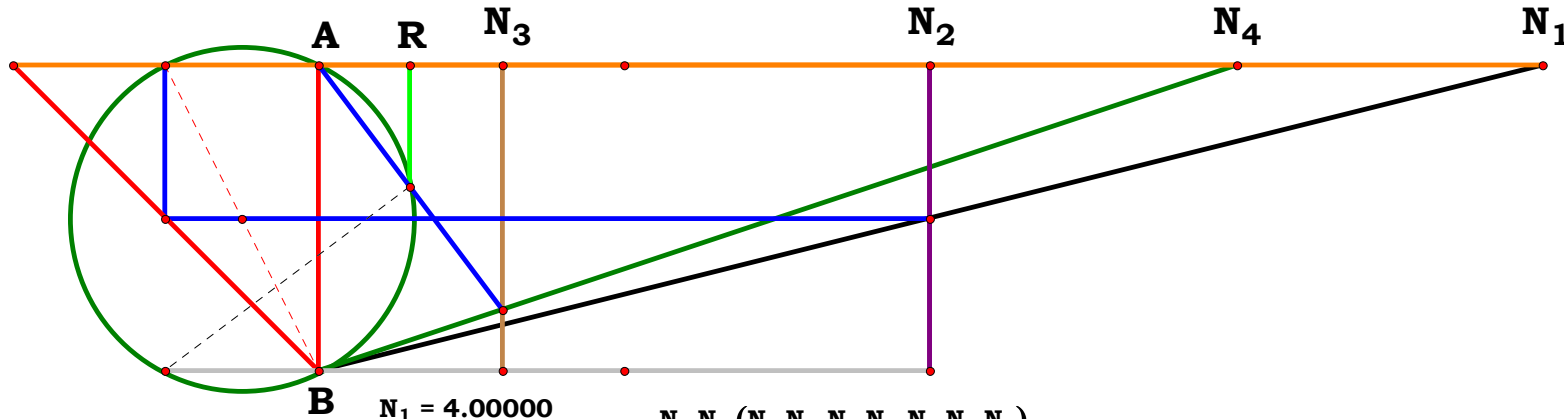
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 \cdot N_4 - N_1 \cdot N_3 - N_2 \cdot N_3 \cdot N_4)}{N_1 \cdot (N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [B \cdot (C - D) - A \cdot N_u]}{B \cdot [(C - D)^2 + N_u^2]} = 0$$

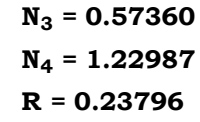
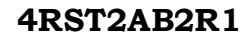
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Z \cdot n \cdot o - W \cdot Y \cdot n \cdot p - X \cdot Y \cdot Z \cdot m)}{W \cdot n \cdot (Y^2 \cdot Z^2 + Y^2 \cdot p^2 - 2 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.60000 \\ N_4 &= 3.00000 \\ R &= 0.30000 \end{aligned}$$

$$\frac{N_3 \cdot N_4 \cdot (N_1 \cdot N_4 - N_1 \cdot N_3 - N_2 \cdot N_3 \cdot N_4)}{N_1 \cdot (((N_3^2 \cdot N_4^2 + N_3^2) - 2 \cdot N_3 \cdot N_4) + N_4^2)} - R = 0.00000$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$
$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{GN}_3 := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} \quad \mathbf{AG} := \sqrt{\mathbf{N}_3^2 + \mathbf{GN}_3^2}$$

$$\mathbf{FH} := \frac{\mathbf{N}_3 \cdot \mathbf{EH}}{\mathbf{AG}} \quad \mathbf{BF} := \mathbf{BH} - \mathbf{FH}$$

$$\mathbf{EF} := \frac{\mathbf{AB} \cdot \mathbf{FH}}{\mathbf{BH}} \quad \mathbf{R} := \frac{\mathbf{BF} \cdot \mathbf{AB}}{\mathbf{EF}} \quad \mathbf{R} = 0.237951$$

$$R - \frac{N_4 - N_3 - AC \cdot N_3 \cdot N_4}{AC \cdot N_4 - AC \cdot N_3 + N_3 \cdot N_4} = 0$$

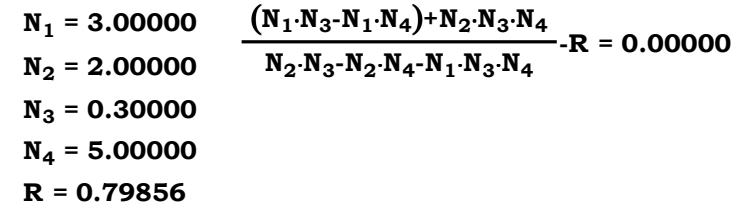
$$R - \frac{N_1 \cdot N_3 - N_1 \cdot N_4 + N_2 \cdot N_3 \cdot N_4}{N_2 \cdot N_3 - N_2 \cdot N_4 - N_1 \cdot N_3 \cdot N_4} = 0$$

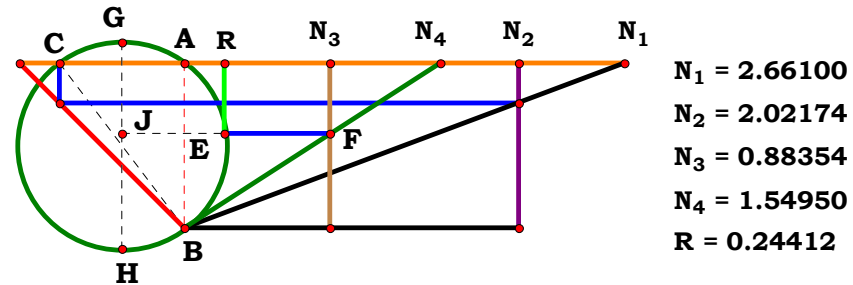
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{B} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m}}{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} \cdot \mathbf{p} + \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{o}} = 0$$





Unit. AB := 1 Given. $N_1 := 2.66100$ $N_2 := 2.02174$ $N_3 := .88354$ $N_4 := 1.54950$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \qquad \mathbf{GH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{GJ} := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} + \frac{\mathbf{GH} - \mathbf{AB}}{2} \quad \mathbf{EJ} := \sqrt{\mathbf{GJ} \cdot (\mathbf{GH} - \mathbf{GJ})}$$

$$\mathbf{R} := \mathbf{EJ} - \frac{\mathbf{AC}}{2} \quad \mathbf{R} = 0.244121$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot \sqrt{N_4^2}}{2 \cdot \sqrt{N_4^2}} = 0$$

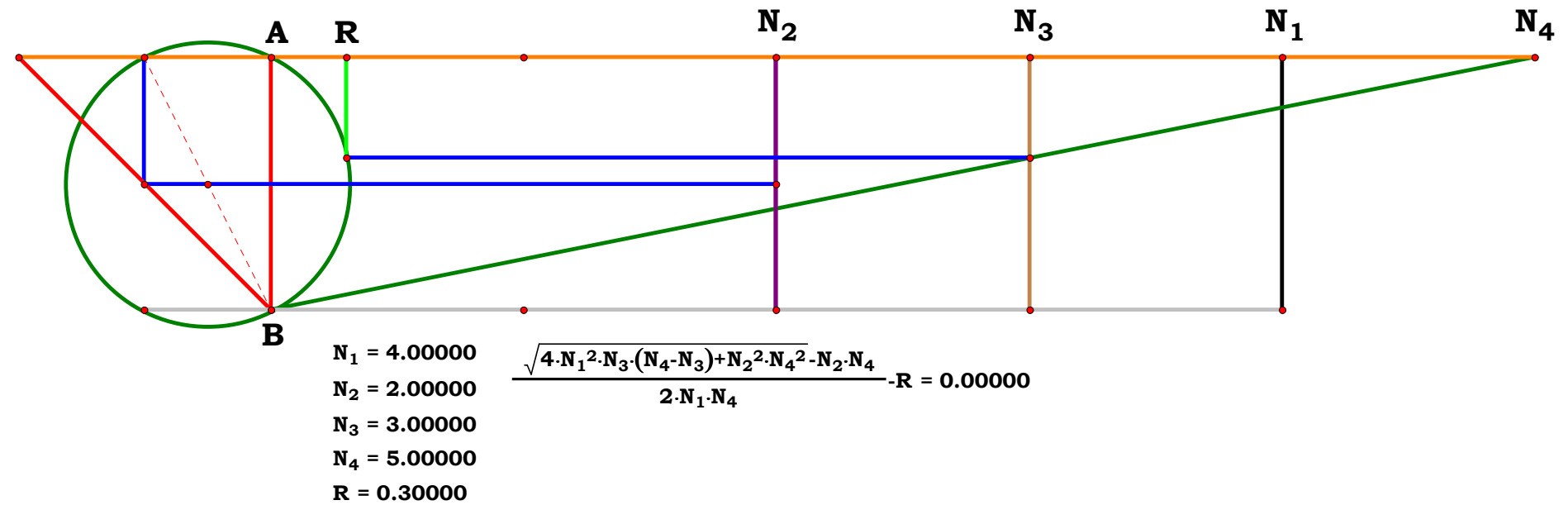
$$R - \frac{\sqrt{4 \cdot N_1^2 \cdot N_3 \cdot (N_4 - N_3) + N_2^2 \cdot N_4^2 - N_2 \cdot N_4}}{2 \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

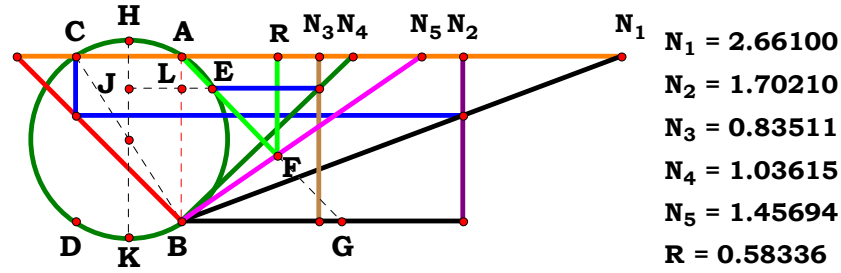
$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C}{2 \cdot B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot W^2 \cdot Y \cdot n^2 \cdot p \cdot (Z \cdot o - Y \cdot p) + X^2 \cdot Z^2 \cdot m^2 \cdot o^2} - X \cdot Z \cdot m \cdot o}{2 \cdot W \cdot Z \cdot n \cdot o} = 0$$



$$\frac{\begin{matrix} N_1 = 4.00000 \\ N_2 = 2.00000 \end{matrix} \sqrt{4 \cdot N_1^2 \cdot N_3 \cdot (N_4 - N_3) + N_2^2 \cdot N_4^2 - N_2 \cdot N_4}}{2 \cdot N_1 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.70210$ $N_3 := .83511$

$N_4 := 1.03615$ $N_5 := 1.45694$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

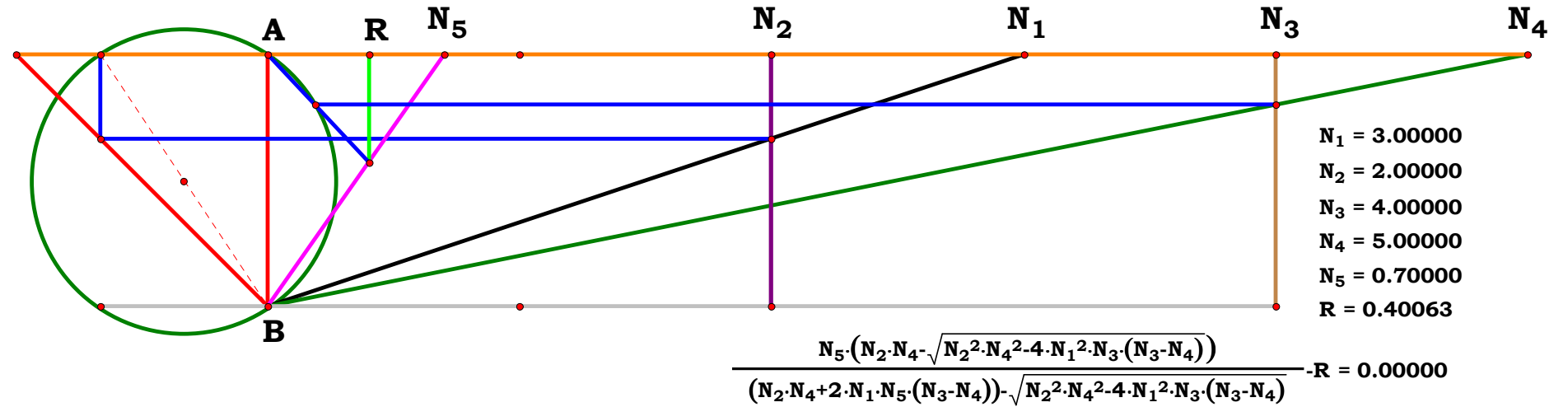
Descriptions.

$$AC := \frac{N_2}{N_1} \quad HK := \sqrt{AB^2 + AC^2}$$

$$AL := \frac{N_4 - N_3}{N_4} \quad HJ := AL + \frac{HK - AB}{2}$$

$$EJ := \sqrt{HJ \cdot (HK - HJ)} \quad BG := \frac{\left(EJ - \frac{AC}{2}\right) \cdot AB}{AL}$$

$$R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.583357$$



Definitions.

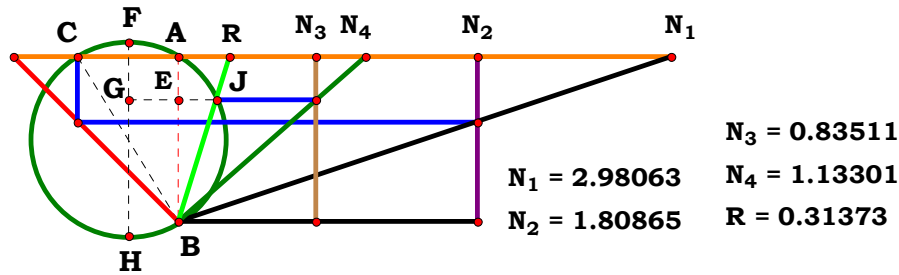
$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}\right)}{\sqrt{N_4^2} \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}} = 0$$

$$R - \frac{N_5 \cdot \left[N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}\right]}{N_2 \cdot N_4 + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4) - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)}\right]}{A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - 2 \cdot B \cdot N_u \cdot (C - D)} = 0 \quad N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[W \cdot Y \cdot l \cdot n - \sqrt{(4 \cdot V^2 \cdot X \cdot Y \cdot m^2 \cdot n \cdot o - 4 \cdot V^2 \cdot X^2 \cdot m^2 \cdot o^2 + W^2 \cdot Y^2 \cdot l^2 \cdot n^2)}\right]}{2 \cdot V \cdot Z \cdot m \cdot (X \cdot o - Y \cdot n) + W \cdot Y \cdot l \cdot n \cdot p - p \cdot \sqrt{4 \cdot V^2 \cdot X \cdot Y \cdot m^2 \cdot n \cdot o - 4 \cdot V^2 \cdot X^2 \cdot m^2 \cdot o^2 + W^2 \cdot Y^2 \cdot l^2 \cdot n^2}} = 0$$



Descriptions.

$$AC := \frac{N_2}{N_1} \quad AE := \frac{N_4 - N_3}{N_4} \quad BE := AB - AE$$

$$FH := \sqrt{AB^2 + AC^2} \quad FG := AE + \frac{FH - AB}{2}$$

$$GJ := \sqrt{FG \cdot (FH - FG)} \quad EJ := GJ - \frac{AC}{2} \quad R := \frac{EJ}{BE}$$

$R = 0.313738$

Definitions.

$$R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} = 0$$

$$R - \frac{\sqrt{4 \cdot N_1^2 \cdot N_3 \cdot (N_4 - N_3) + N_2^2 \cdot N_4^2 - N_2 \cdot N_4}}{2 \cdot N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D) - A \cdot C}}{2 \cdot B \cdot D} = 0$$

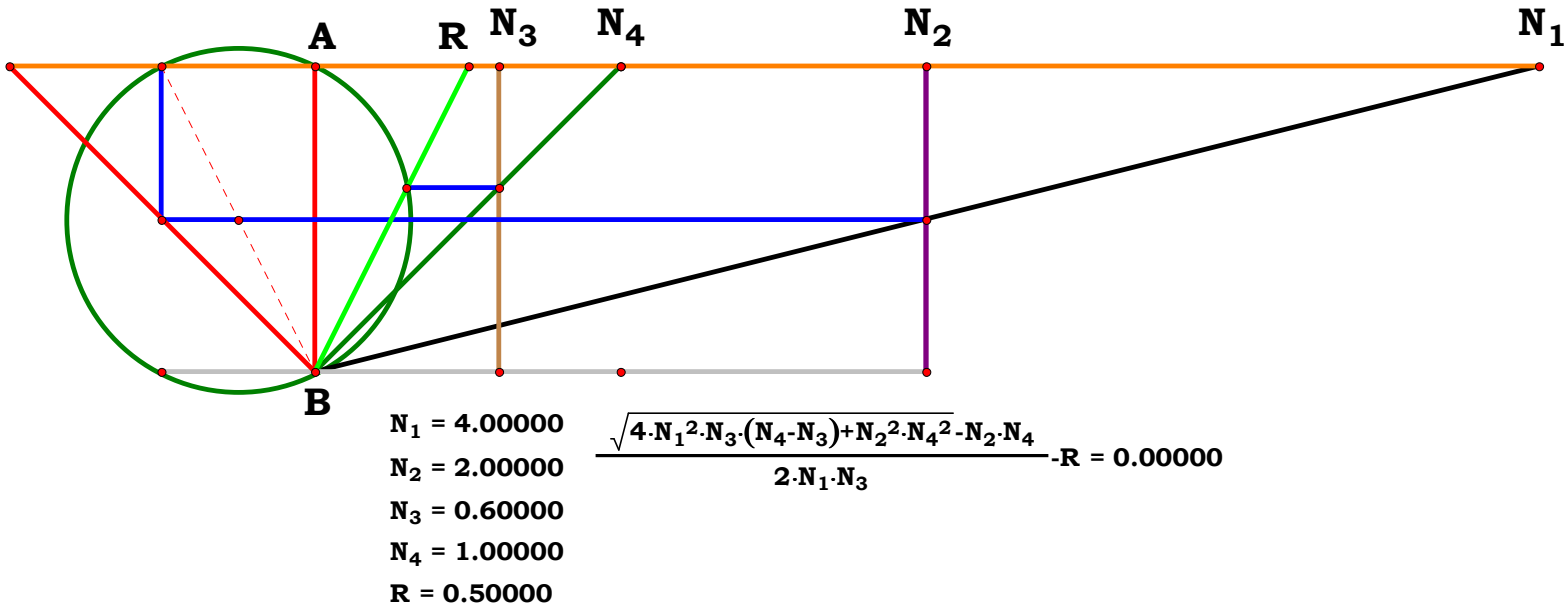
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

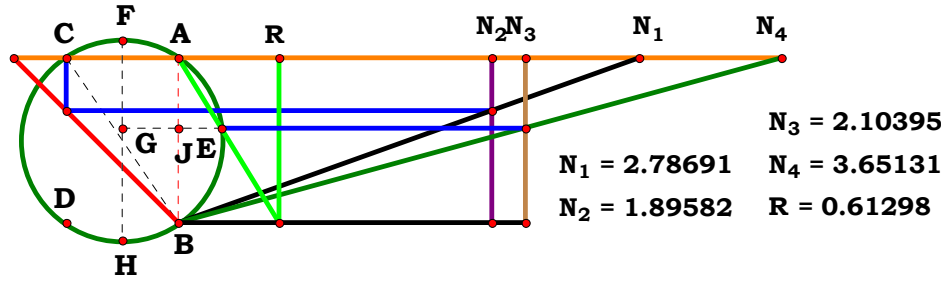
$$R - \frac{\sqrt{4 \cdot W^2 \cdot Y \cdot n^2 \cdot p \cdot (Z \cdot o - Y \cdot p) + X^2 \cdot Z^2 \cdot m^2 \cdot o^2 - X \cdot Z \cdot m \cdot o}}{2 \cdot W \cdot Y \cdot n \cdot p} = 0$$

Unit. $AB := 1$ Given. $N_1 := 2.98063$ $N_2 := 1.80865$ $N_3 := .83511$ $N_4 := 1.13301$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





Unit. $AB := 1$ Given. $N_1 := 2.78691$ $N_2 := 1.89582$ $N_3 := 2.10395$ $N_4 := 3.65131$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad AJ := \frac{N_4 - N_3}{N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \quad FG := AJ + \frac{FH - AB}{2}$$

$$EG := \sqrt{FG \cdot (FH - FG)} \quad EJ := EG - \frac{AC}{2}$$

$$R := \frac{EJ \cdot AB}{AJ} \quad R = 0.612979$$

Definitions.

$$R - \frac{N_4 \cdot \left(AC \cdot \sqrt{N_4^2 - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}} \right)}{2 \cdot (N_3 - N_4) \cdot \sqrt{N_4^2}} = 0$$

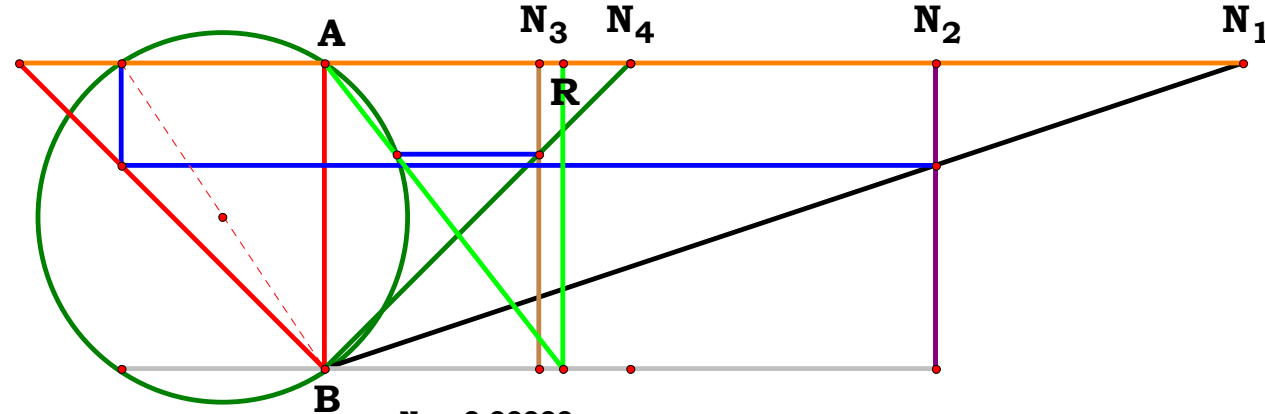
$$R - \frac{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

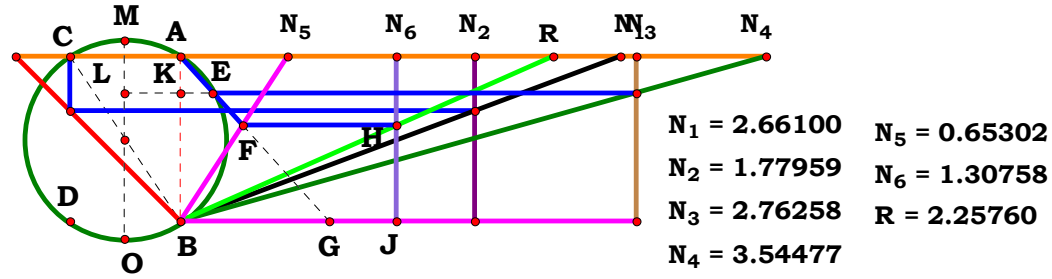
$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C}{2 \cdot B \cdot (C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot o - \sqrt{4 \cdot W^2 \cdot Y \cdot n^2 \cdot p \cdot (Z \cdot o - Y \cdot p) + X^2 \cdot Z^2 \cdot m^2 \cdot o^2}}{2 \cdot W \cdot n \cdot (Y \cdot p - Z \cdot o)} = 0$$



$$\frac{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_1 \cdot (N_3 - N_4)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.77959$ $N_3 := 2.76258$
 $N_4 := 3.54477$ $N_5 := .65302$ $N_6 := 1.30758$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

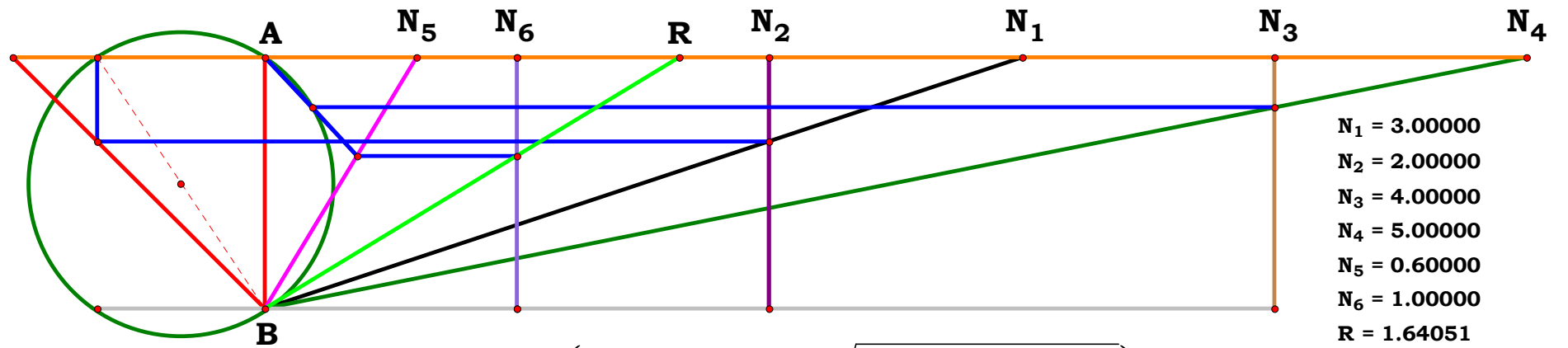
$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$AC := \frac{N_2}{N_1} \quad AK := \frac{N_4 - N_3}{N_4} \quad MO := \sqrt{AB^2 + AC^2}$$

$$ML := AK + \frac{MO - AB}{2} \quad EL := \sqrt{ML \cdot (MO - ML)}$$

$$EK := EL - \frac{AC}{2} \quad BG := \frac{EK \cdot AB}{AK} \quad HJ := \frac{BG}{BG + N_5}$$

$$R := \frac{N_6}{HJ} \quad R = 2.257605$$



$$\frac{N_6 \cdot ((N_2 \cdot N_4 + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4)) - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)})}{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} - R = 0.00000$$

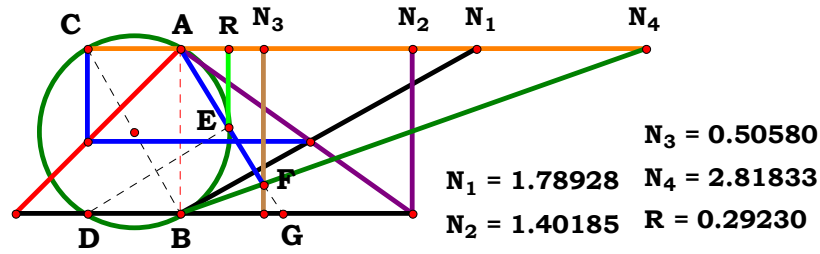
$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2} \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right]}{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)} = 0$$

$$R - \frac{N_6 \cdot \left[N_2 \cdot N_4 + 2 \cdot N_1 \cdot N_5 \cdot (N_3 - N_4) - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)} \right]}{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - 2 \cdot B \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} \right]} = 0 \quad N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[2 \cdot U \cdot Y \cdot l \cdot (W \cdot n - X \cdot m) + V \cdot X \cdot k \cdot m \cdot o - o \cdot \sqrt{4 \cdot U^2 \cdot W \cdot l^2 \cdot n \cdot (X \cdot m - W \cdot n) + V^2 \cdot X^2 \cdot k^2 \cdot m^2} \right]}{o \cdot p \cdot \left[V \cdot X \cdot k \cdot m - \sqrt{4 \cdot U^2 \cdot W \cdot l^2 \cdot n \cdot (X \cdot m - W \cdot n) + V^2 \cdot X^2 \cdot k^2 \cdot m^2} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.78926$ $N_2 := 1.40185$ $N_3 := .50580$ $N_4 := 2.81833$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad FN_3 := \frac{N_4 - N_3}{N_4} \quad AF := \sqrt{N_3^2 + FN_3^2}$$

$$AG := \frac{AF \cdot AB}{FN_3} \quad BG := \frac{N_3 \cdot AB}{FN_3} \quad DG := BG + AC$$

$$EG := \frac{N_3 \cdot DG}{AF} \quad AE := AG - EG$$

$$R := \frac{N_3 \cdot AE}{AF} \quad R = 0.292301$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_4 - N_3 - AC \cdot N_3 \cdot N_4)}{N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2} = 0$$

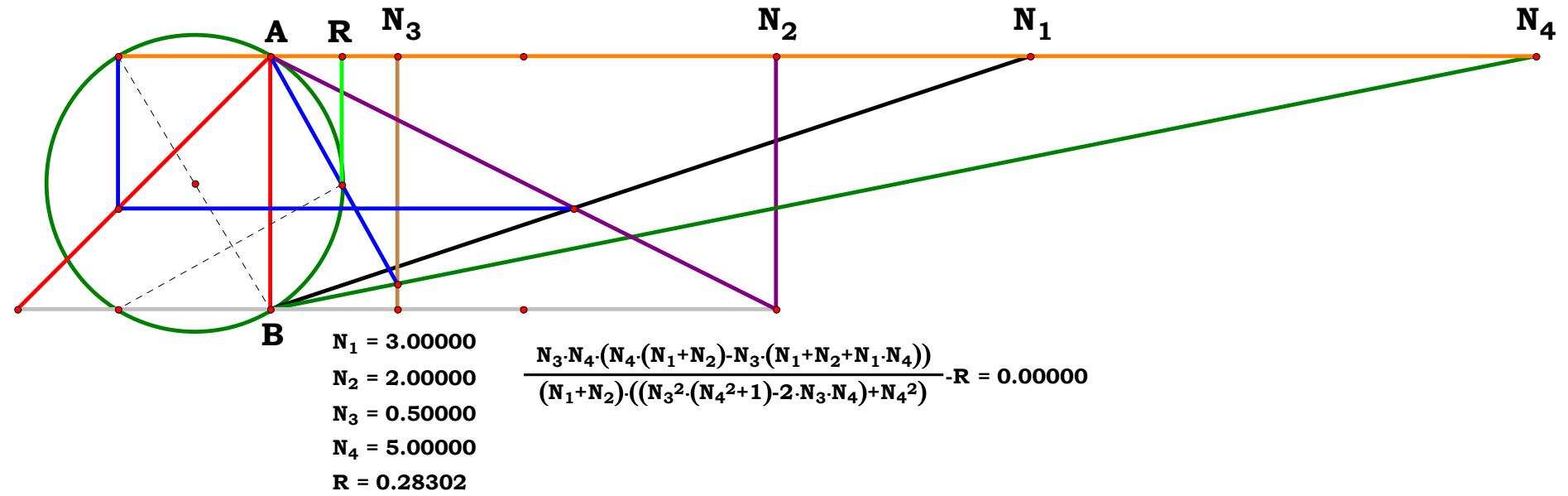
$$R - \frac{N_3 \cdot N_4 \cdot [N_4 \cdot (N_1 + N_2) - N_3 \cdot (N_1 + N_2 + N_1 \cdot N_4)]}{(N_1 + N_2) \cdot [N_3^2 \cdot (N_4^2 + 1) - 2 \cdot N_3 \cdot N_4 + N_4^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [(C - D) \cdot (A + B) - B \cdot N_u]}{(A + B) \cdot [(C - D)^2 + N_u^2]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

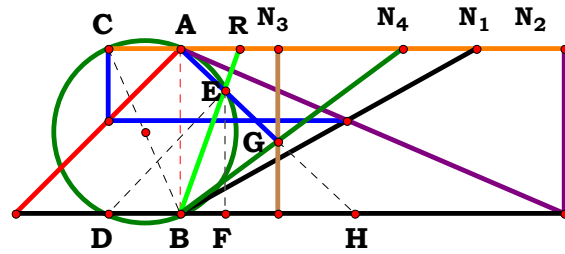
$$R - \frac{Y \cdot Z \cdot [W \cdot n \cdot (Z \cdot o - Y \cdot p - Y \cdot Z) + X \cdot m \cdot (Z \cdot o - Y \cdot p)]}{(W \cdot n + X \cdot m) \cdot (Y^2 \cdot Z^2 + Y^2 \cdot p^2 - 2 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} = 0$$



$$\frac{N_3 \cdot N_4 \cdot (N_4 \cdot (N_1 + N_2) - N_3 \cdot (N_1 + N_2 + N_1 \cdot N_4))}{(N_1 + N_2) \cdot ((N_3^2 \cdot (N_4^2 + 1) - 2 \cdot N_3 \cdot N_4) + N_4^2)} - R = 0.00000$$



4RST2AB3R1



$$\begin{aligned} N_1 &= 1.78928 \\ N_2 &= 2.32200 \\ N_3 &= 0.59297 \\ N_4 &= 1.34610 \\ R &= 0.36035 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.78929 \quad N_2 := 2.32200 \quad N_3 := .59297 \quad N_4 := 1.3461$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad GN_3 := \frac{N_4 - N_3}{N_4} \quad AG := \sqrt{N_3^2 + GN_3^2}$$

$$BH := \frac{N_3 \cdot AB}{GN_3} \quad DH := BH + AC \quad EH := \frac{N_3 \cdot DH}{AG}$$

$$FH := \frac{N_3 \cdot EH}{AG} \quad BF := BH - FH \quad EF := \frac{AB \cdot FH}{BH}$$

$$R := \frac{BF \cdot AB}{EF} \quad R = 0.360351$$

Definitions.

$$R - \frac{N_4 - N_3 - AC \cdot N_3 \cdot N_4}{AC \cdot N_4 - AC \cdot N_3 + N_3 \cdot N_4} = 0$$

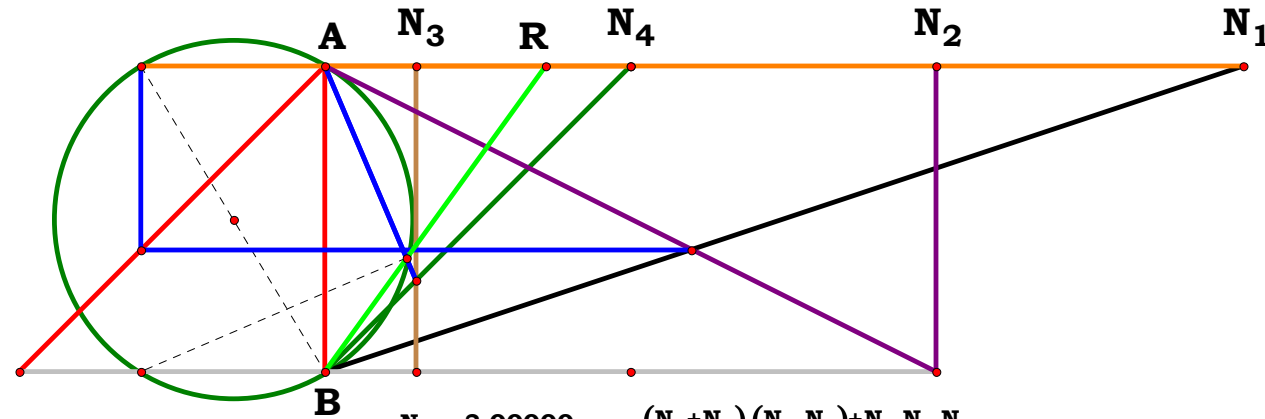
$$R - \frac{(N_3 - N_4) \cdot (N_1 + N_2) + N_1 \cdot N_3 \cdot N_4}{N_1 \cdot (N_3 - N_4) - N_3 \cdot N_4 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(C - D) \cdot (A + B) - B \cdot N_u}{B \cdot (C - D) + N_u \cdot (A + B)} = 0$$

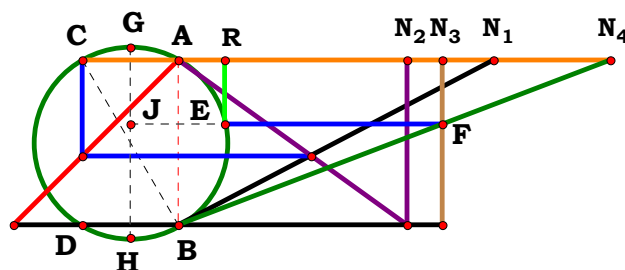
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot n \cdot (Z \cdot o - Y \cdot p - Y \cdot Z) + X \cdot m \cdot (Z \cdot o - Y \cdot p)}{W \cdot n \cdot (Y \cdot Z - Y \cdot p + Z \cdot o) + X \cdot Y \cdot Z \cdot m} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.30000 \\ N_4 &= 1.00000 \\ x_R &= 0.72222 \end{aligned}$$

$$\frac{(N_1 + N_2) \cdot (N_3 - N_4) + N_1 \cdot N_3 \cdot N_4}{N_1 \cdot (N_3 - N_4) - N_3 \cdot N_4 \cdot (N_1 + N_2)} - x_R = 0.00000$$

Unit. AB := 1 Given. $N_1 := 1.90551$ $N_2 := 1.38247$ $N_3 := 1.60029$ $N_4 := 2.61493$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

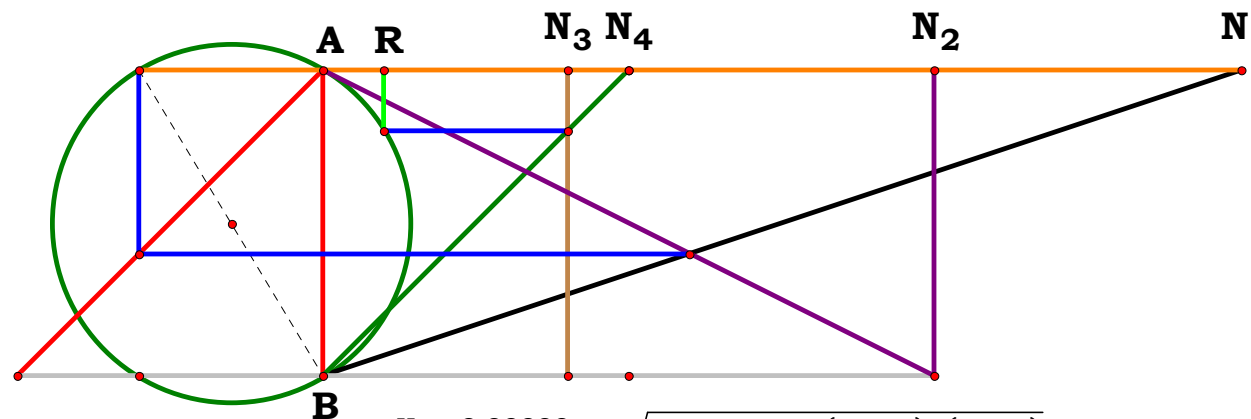
Descriptions.

$$\mathbf{AC} := \frac{N_1}{N_1 + N_2} \quad \mathbf{GH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{GJ} := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} + \frac{\mathbf{GH} - \mathbf{AB}}{2}$$

$$\mathbf{EJ} := \sqrt{\mathbf{GJ} \cdot (\mathbf{GH} - \mathbf{GJ})} \quad \mathbf{R} := \mathbf{EJ} - \frac{\mathbf{AC}}{2}$$

R = 0.277175



N₁ = 3.00000
N₂ = 2.00000
N₃ = 0.80000
N₄ = 1.00000
R = 0.20000

$$\frac{\sqrt{N_1^2 \cdot N_4^2 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3)} - N_1 \cdot N_4}{2 \cdot N_4 \cdot (N_1 + N_2)} \cdot R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot \sqrt{N_4^2}}{2 \cdot \sqrt{N_4^2}} = 0$$

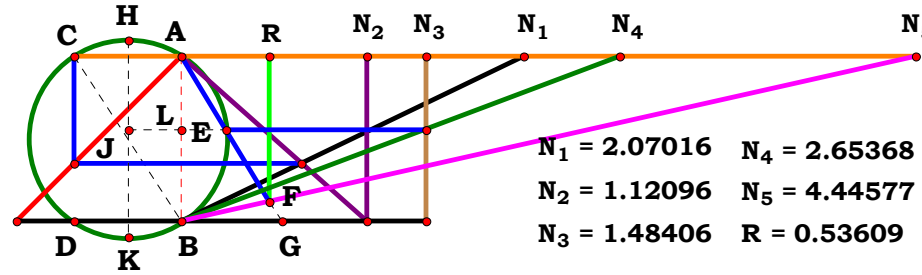
$$R - \frac{\sqrt{N_1^2 \cdot N_4^2 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3) - N_1 \cdot N_4}}{2 \cdot (N_1 + N_2) \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A+B)^2 \cdot (C-D)} - B \cdot C}{2 \cdot (A+B) \cdot C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot o^2 \cdot Z^2 + 4 \cdot Z \cdot Y \cdot o \cdot p \cdot (W \cdot n + X \cdot m)^2} - [4 \cdot Y^2 \cdot p^2 \cdot (W \cdot n + X \cdot m)^2] - W \cdot Z \cdot n \cdot o}{2 \cdot Z \cdot o \cdot (W \cdot n + X \cdot m)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.07016$ $N_2 := 1.12096$ $N_3 := 1.48406$
 $N_4 := 2.65368$ $N_5 := 4.44577$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

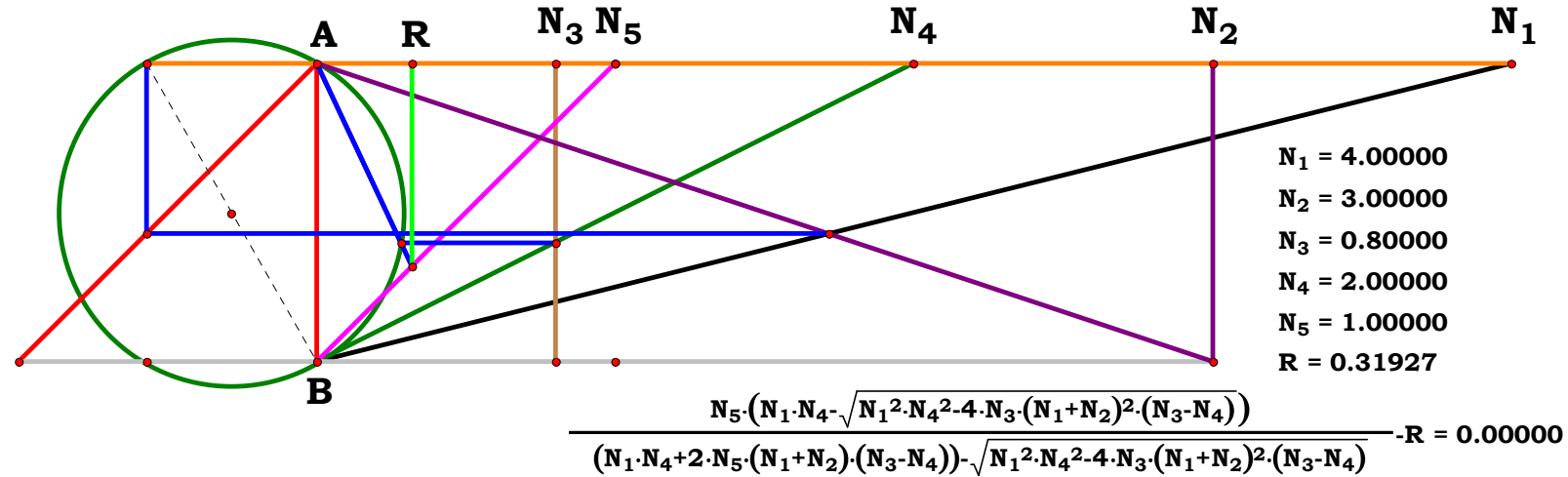
Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad HK := \sqrt{AB^2 + AC^2}$$

$$AL := \frac{N_4 - N_3}{N_4} \quad HJ := AL + \frac{HK - AB}{2}$$

$$EJ := \sqrt{HJ \cdot (HK - HJ)} \quad BG := \frac{\left(EJ - \frac{AC}{2}\right) \cdot AB}{AL}$$

$$R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.536087$$



Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}\right)}{\sqrt{N_4^2} \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}} = 0$$

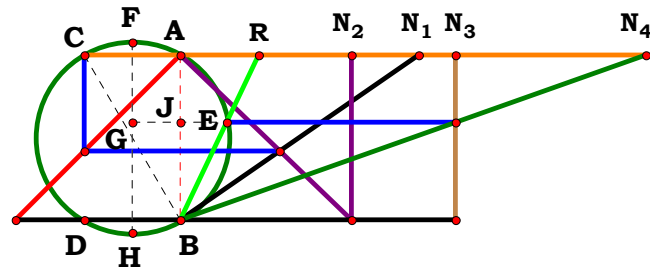
$$R - \frac{N_5 \cdot \left[N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_3 - N_4) \cdot (N_1 + N_2)^2}\right]}{N_1 \cdot N_4 + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2) - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_3 - N_4) \cdot (N_1 + N_2)^2}} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A + B)^2 + 4 \cdot C \cdot D \cdot (A + B)^2} - B \cdot C\right]}{E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A + B)^2 + 4 \cdot C \cdot D \cdot (A + B)^2} + 2 \cdot N_u \cdot (C - D) \cdot (A + B) - B \cdot C \cdot E} = 0$$

$$R - \frac{Z \cdot \left[V \cdot Y \cdot m \cdot n - \sqrt{4 \cdot X \cdot o \cdot (V \cdot m + W \cdot l)^2 \cdot (Y \cdot n - X \cdot o) + V^2 \cdot Y^2 \cdot m^2 \cdot n^2}\right]}{2 \cdot Z \cdot (X \cdot o - Y \cdot n) \cdot (V \cdot m + W \cdot l) + V \cdot Y \cdot m \cdot n \cdot p - p \cdot \sqrt{4 \cdot X \cdot o \cdot (V \cdot m + W \cdot l)^2 \cdot (Y \cdot n - X \cdot o) + V^2 \cdot Y^2 \cdot m^2 \cdot n^2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$



$N_1 = 1.44059$
 $N_2 = 1.03379$
 $N_3 = 1.66809$
 $N_4 = 2.81833$
 $R = 0.47329$

Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := 1.03379$ $N_3 := 1.66809$ $N_4 := 2.81833$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad AE := \frac{N_4 - N_3}{N_4} \quad BE := AB - AE$$

$$FH := \sqrt{AB^2 + AC^2} \quad FG := AE + \frac{FH - AB}{2}$$

$$EG := \sqrt{FG \cdot (FH - FG)} \quad EJ := EG - \frac{AC}{2}$$

$$R := \frac{EJ \cdot AB}{BE} \quad R = 0.473287$$

Definitions.

$$R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} = 0$$

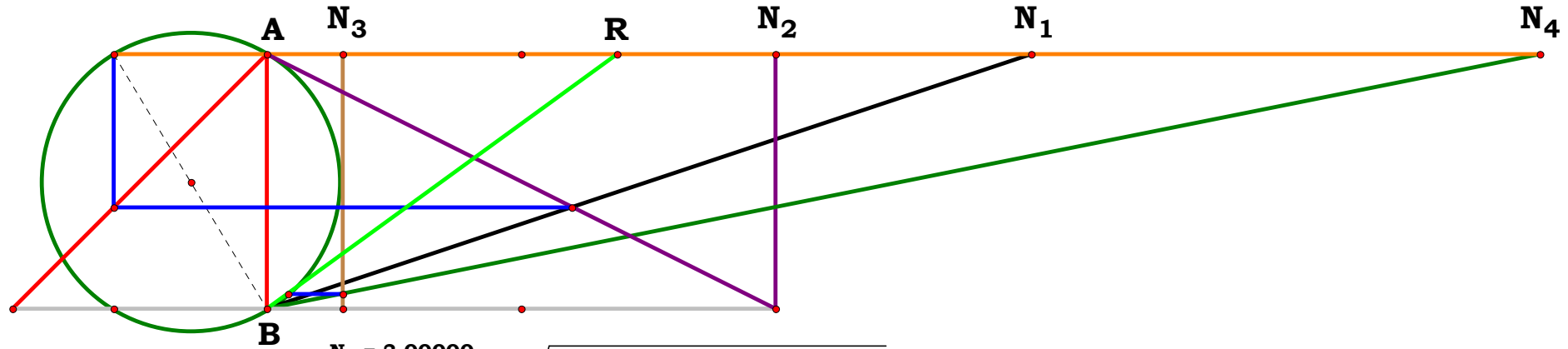
$$R - \frac{\sqrt{(N_1 \cdot N_4)^2 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3)} - N_1 \cdot N_4}{2 \cdot (N_1 + N_2) \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C}{2 \cdot (A + B) \cdot D} = 0$$

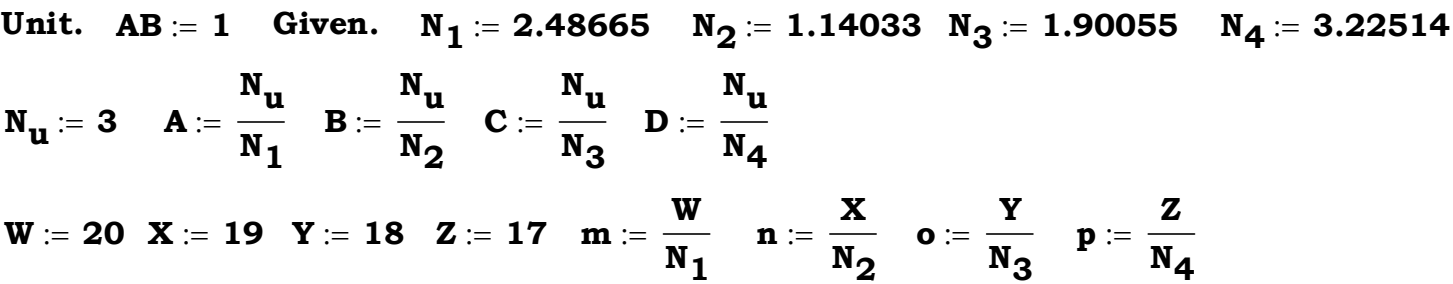
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)^2 \cdot (Z \cdot o - Y \cdot p) + W^2 \cdot Z^2 \cdot n^2 \cdot o^2} - W \cdot Z \cdot n \cdot o}{2 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.30000$
 $N_4 = 5.00000$
 $R = 1.37704$

$$\frac{\sqrt{(N_1 \cdot N_4)^2 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3)} - (N_1 \cdot N_4)}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$

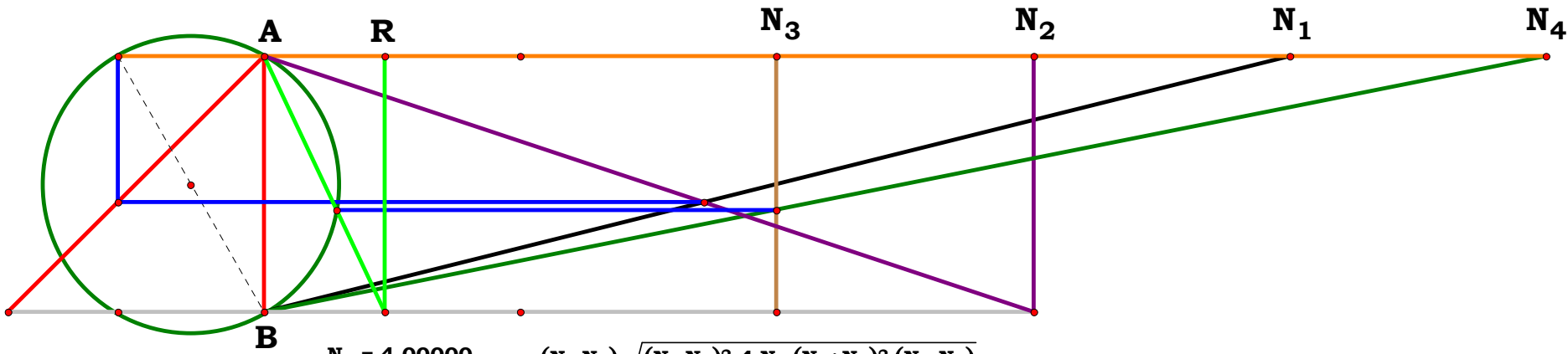


$$\mathbf{AC} := \frac{N_1}{N_1 + N_2} \quad \mathbf{AJ} := \frac{N_4 - N_3}{N_4}$$

$$\mathbf{FH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \qquad \mathbf{FG} := \mathbf{AJ} + \frac{\mathbf{FH} - \mathbf{AB}}{2}$$

$$\mathbf{EG} := \sqrt{\mathbf{FG} \cdot (\mathbf{FH} - \mathbf{FG})} \quad \mathbf{EJ} := \mathbf{EG} - \frac{\mathbf{AC}}{2}$$

$$\mathbf{R} := \frac{\mathbf{EJ} \cdot \mathbf{AB}}{\mathbf{AJ}} \qquad \mathbf{R} = 0.625301$$



$$\frac{(N_1 \cdot N_4) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 - N_4)} \cdot R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{\mathbf{N}_4 \cdot \left(\mathbf{AC} \cdot \sqrt{\mathbf{N}_4^2} - \sqrt{\mathbf{AC}^2 \cdot \mathbf{N}_4^2 - 4 \cdot \mathbf{N}_3^2 + 4 \cdot \mathbf{N}_3 \cdot \mathbf{N}_4} \right)}{2 \cdot (\mathbf{N}_3 - \mathbf{N}_4) \cdot \sqrt{\mathbf{N}_4^2}} = 0$$

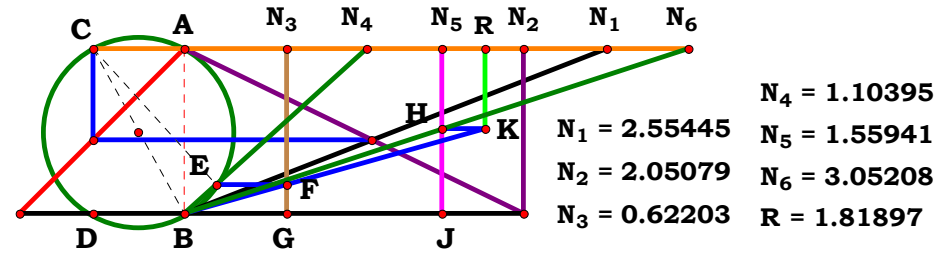
$$R - \frac{N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C}{2 \cdot (A + B) \cdot (C - D)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = \mathbf{0} \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = \mathbf{0} \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o} - \sqrt{4 \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m})^2 \cdot (\mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{p}) + \mathbf{W}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{n}^2 \cdot \mathbf{o}^2}}{2 \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) \cdot (\mathbf{Y} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{o})} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := 2.05079$ $N_3 := .62203$
 $N_4 := 1.10395$ $N_5 := 1.55941$ $N_6 := 3.05208$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad HN_5 := \frac{N_6 - N_5}{N_6}$$

$$HJ := AB - HN_5 \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$CN_4 := N_4 + AC \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad FG := \frac{AB \cdot BE}{BN_4}$$

$$R := \frac{N_3 \cdot HJ}{FG} \quad R = 1.818978$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 - AC \cdot N_4 \cdot N_6} = 0$$

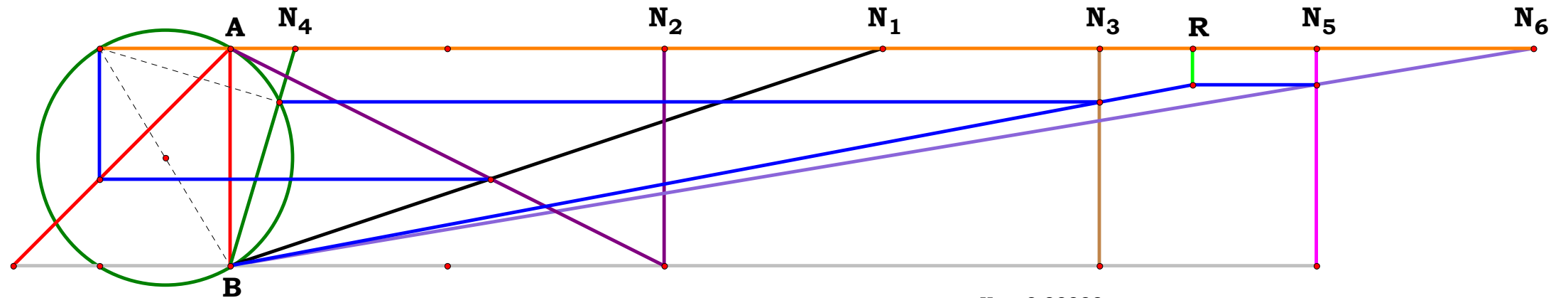
$$R - \frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_6 \cdot (N_1 + N_2 - N_1 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{F \cdot N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot E \cdot [D \cdot (A + B) - B \cdot N_u]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot p \cdot (U \cdot l + V \cdot k) \cdot (X^2 + n^2)}{Z \cdot m \cdot n \cdot o \cdot (U \cdot l \cdot n - U \cdot X \cdot l + V \cdot k \cdot n)} = 0$$

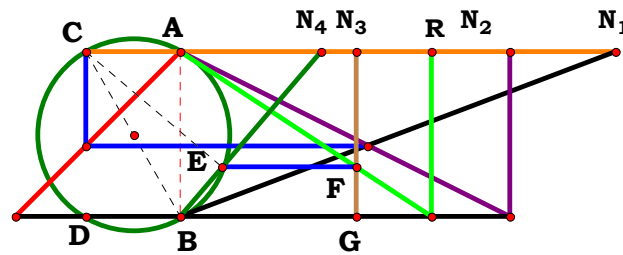


$$\frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_6 \cdot ((N_1 + N_2) - N_1 \cdot N_4)} - R = 0.00000$$

$N_1 = 3.00000$ $N_4 = 0.30000$
 $N_2 = 2.00000$ $N_5 = 5.00000$
 $N_3 = 4.00000$ $N_6 = 6.00000$
 $R = 4.43089$



4RST2AB3R7



$N_1 = 2.63194$
 $N_2 = 1.99268$
 $N_3 = 1.06757$
 $N_4 = 0.85212$
 $R = 1.52159$

Unit. $AB := 1$ Given. $N_1 := 2.63194$ $N_2 := 1.99268$ $N_3 := 1.06757$ $N_4 := .85212$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$FN_3 := \frac{AB \cdot EN_4}{BN_4} \quad R := \frac{N_3 \cdot AB}{FN_3}$$

$R = 1.521591$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (AC + N_4)} = 0$$

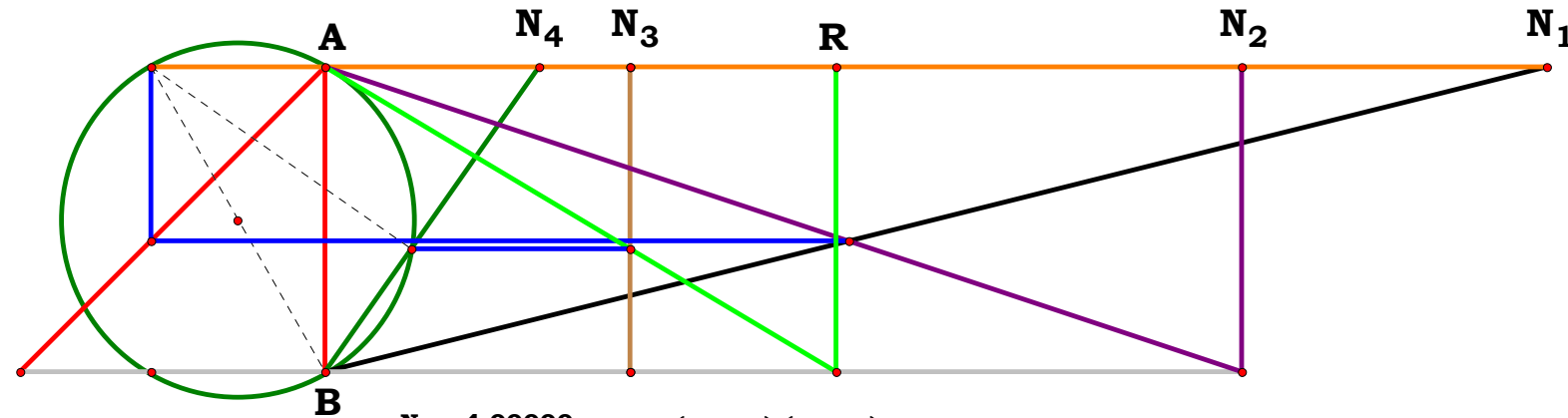
$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_4 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(D^2 + N_u^2) \cdot (A + B)}{C \cdot [B \cdot D + N_u \cdot (A + B)]} = 0$$

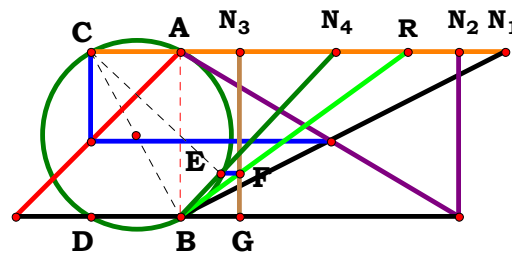
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot (W \cdot n + X \cdot m) \cdot (Z^2 + p^2)}{Z \cdot o \cdot (W \cdot Z \cdot n + X \cdot Z \cdot m + W \cdot n \cdot p)} = 0$$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.70000$
 $R = 1.67416$

$$\frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_4 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4)} - R = 0.00000$$



$N_1 = 1.96362$
 $N_2 = 1.68273$
 $N_3 = 0.36051$
 $N_4 = 0.93929$
 $R = 1.37315$

Unit. $AB := 1$ Given. $N_1 := 1.96362$ $N_2 := 1.68273$ $N_3 := .36051$ $N_4 := .93929$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad R := \frac{N_3 \cdot BN_4}{BE}$$

$$R = 1.373144$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{1 - AC \cdot N_4} = 0$$

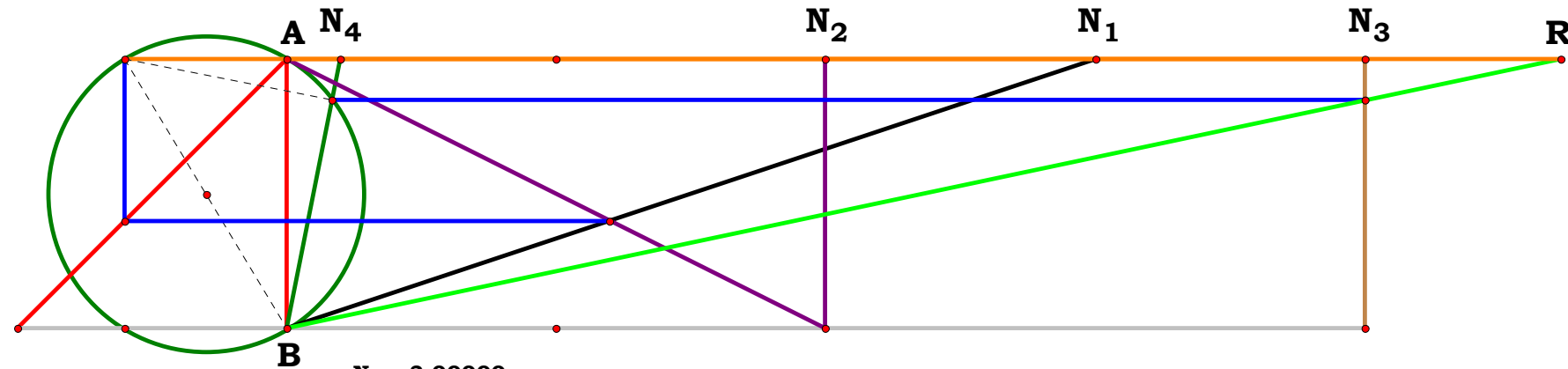
$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_1 + N_2 - N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [D \cdot (A + B) - B \cdot N_u]} = 0$$

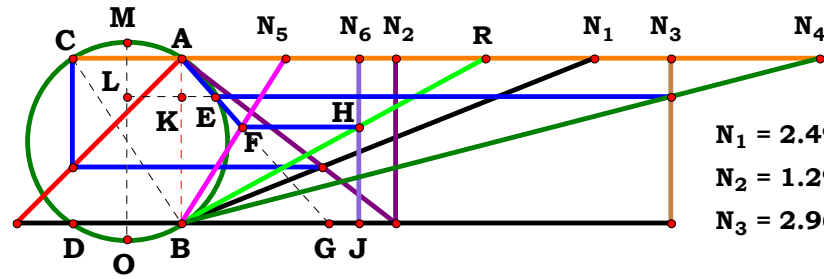
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot (W \cdot n + X \cdot m) \cdot (Z^2 + p^2)}{o \cdot p \cdot (W \cdot n \cdot p - W \cdot Z \cdot n + X \cdot m \cdot p)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 0.20000$
 $R = 4.72727$

$$\frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{(N_1 + N_2) - N_1 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 1.29530$ $N_3 := 2.96599$
 $N_4 := 3.86440$ $N_5 := .62958$ $N_6 := 1.07618$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad AK := \frac{N_4 - N_3}{N_4}$$

$$MO := \sqrt{AB^2 + AC^2} \quad ML := AK + \frac{MO - AB}{2}$$

$$EL := \sqrt{ML \cdot (MO - ML)} \quad EK := EL - \frac{AC}{2}$$

$$BG := \frac{EK \cdot AB}{AK} \quad HJ := \frac{BG}{BG + N_5}$$

$$R := \frac{N_6}{HJ} \quad R = 1.839537$$

Definitions.

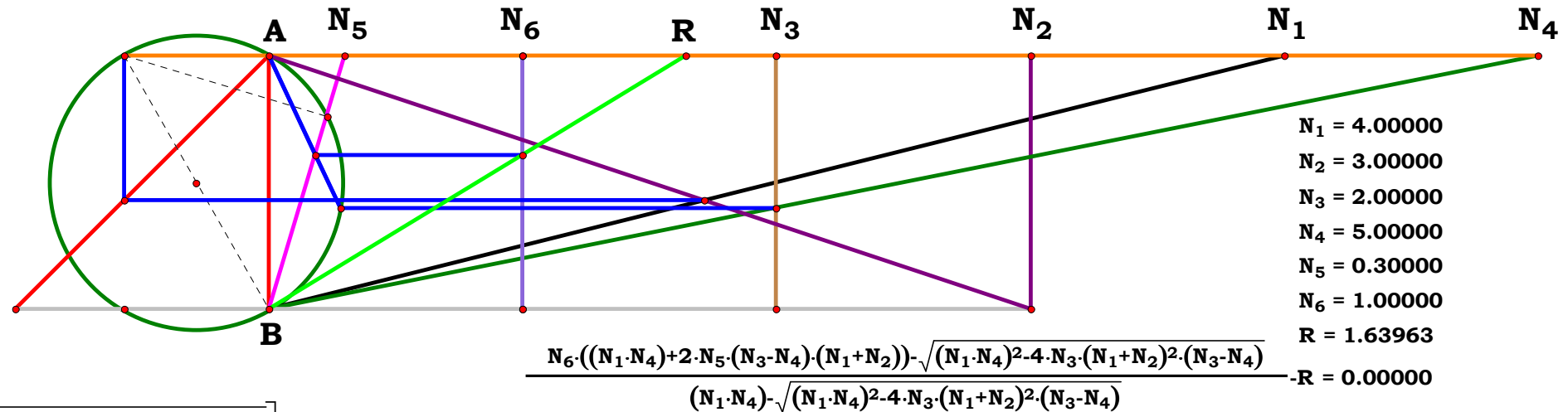
$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2} \cdot [AC \cdot N_4 + 2 \cdot N_5 \cdot (N_3 - N_4)] - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_3 - N_4)} \right]}{N_4 \cdot [AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_3 - N_4)}]} = 0$$

$$R - \frac{N_6 \cdot [N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)} + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2)]}{N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

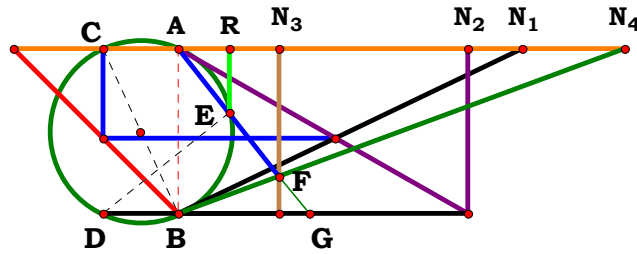
$$R - \frac{N_u \cdot [E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + [2 \cdot N_u \cdot (C - D) \cdot (A + B) - B \cdot C \cdot E]]}{E \cdot F \cdot [\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [X \cdot m \cdot (U \cdot l \cdot o - 2 \cdot V \cdot Y \cdot k - 2 \cdot U \cdot Y \cdot l) + 2 \cdot W \cdot Y \cdot n \cdot (U \cdot l + V \cdot k) - o \cdot \sqrt{U^2 \cdot l^2 \cdot m^2 \cdot X^2 + 4 \cdot W \cdot n \cdot (U \cdot l + V \cdot k)^2 \cdot (X \cdot m - W \cdot n)}]}{o \cdot p \cdot [U \cdot X \cdot l \cdot m - \sqrt{U^2 \cdot l^2 \cdot m^2 \cdot X^2 + 4 \cdot W \cdot n \cdot (U \cdot l + V \cdot k)^2 \cdot (X \cdot m - W \cdot n)}]} = 0$$



$$\frac{N_6 \cdot ((N_1 \cdot N_4) + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2)) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}}{(N_1 \cdot N_4) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}} - R = 0.00000$$



$N_1 = 2.07985$
 $N_2 = 1.75053$
 $N_3 = 0.61234$
 $N_4 = 2.70210$
 $R = 0.31057$

Unit. $AB := 1$ Given. $N_1 := 2.07985$ $N_2 := 1.75053$ $N_3 := .61234$ $N_4 := 2.70210$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad FN_3 := \frac{N_4 - N_3}{N_4} \quad AF := \sqrt{N_3^2 + FN_3^2}$$

$$AG := \frac{AF \cdot AB}{FN_3} \quad BG := \frac{N_3 \cdot AB}{FN_3} \quad DG := BG + AC$$

$$EG := \frac{N_3 \cdot DG}{AF} \quad AE := AG - EG$$

$$R := \frac{N_3 \cdot AE}{AF} \quad R = 0.310572$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_4 - N_3 - AC \cdot N_3 \cdot N_4)}{N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2} = 0$$

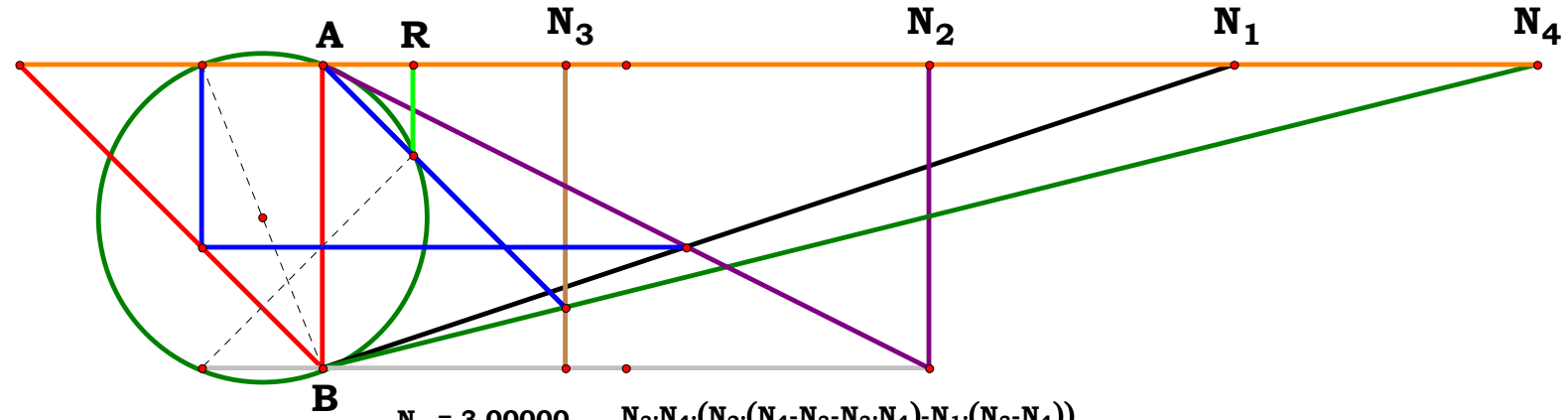
$$R - \frac{N_3 \cdot N_4 \cdot [N_2 \cdot (N_4 - N_3 - N_3 \cdot N_4) - N_1 \cdot (N_3 - N_4)]}{(N_1 + N_2) \cdot [(N_4^2 + 1) \cdot N_3^2 - N_4 \cdot (2 \cdot N_3 - N_4)]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [(C - D) \cdot (A + B) - A \cdot N_u]}{(A + B) \cdot [(C - D)^2 + N_u^2]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot [-W \cdot n \cdot (Y \cdot p - Z \cdot o) - X \cdot Y \cdot m \cdot (Z + p) + X \cdot Z \cdot m \cdot o]}{(W \cdot n + X \cdot m) \cdot (Y^2 \cdot Z^2 + Y^2 \cdot p^2 - 2 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} = 0$$

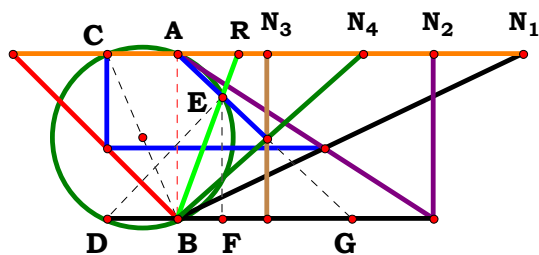


$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.80000$
 $N_4 = 4.00000$
 $R = 0.30000$

$$\frac{N_3 \cdot N_4 \cdot (N_2 \cdot (N_4 - N_3 - N_3 \cdot N_4) - N_1 \cdot (N_3 - N_4))}{(N_1 + N_2) \cdot ((N_4^2 + 1) \cdot N_3^2 - N_4 \cdot (2 \cdot N_3 - N_4))} \cdot R = 0.00000$$



4RST2AB4R1



$N_1 = 2.08954$
 $N_2 = 1.54713$
 $N_3 = 0.54454$
 $N_4 = 1.12332$
 $R = 0.37131$

Unit. $AB := 1$ Given. $N_1 := 2.08954$ $N_2 := 1.54713$ $N_3 := .54454$ $N_4 := 1.12332$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad GN_3 := \frac{N_4 - N_3}{N_4} \quad AG := \sqrt{N_3^2 + GN_3^2}$$

$$BH := \frac{N_3 \cdot AB}{GN_3} \quad DH := BH + AC \quad EH := \frac{N_3 \cdot DH}{AG}$$

$$FH := \frac{N_3 \cdot EH}{AG} \quad BF := BH - FH$$

$$EF := \frac{AB \cdot FH}{BH} \quad R := \frac{BF \cdot AB}{EF}$$

$R = 0.371306$

Definitions.

$$R - \frac{N_4 - N_3 - AC \cdot N_3 \cdot N_4}{AC \cdot N_4 - AC \cdot N_3 + N_3 \cdot N_4} = 0$$

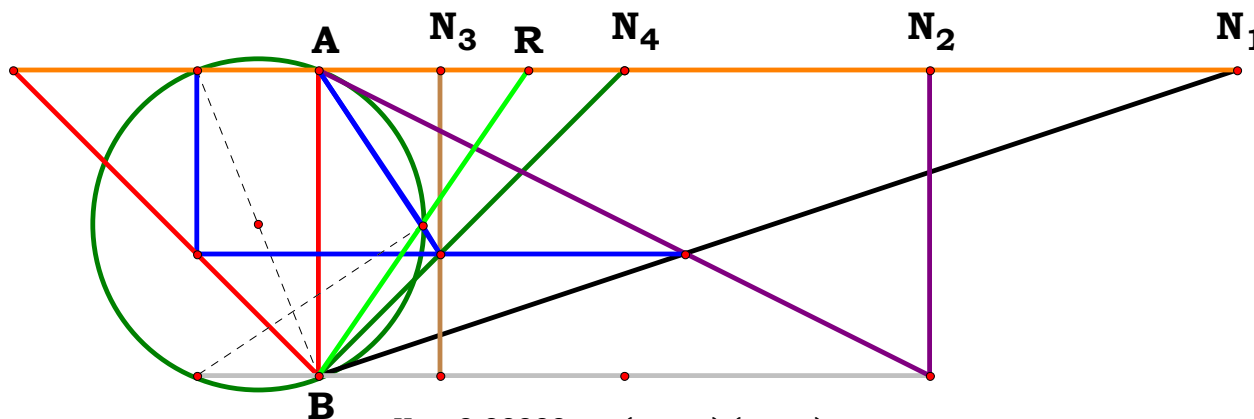
$$R - \frac{(N_1 + N_2) \cdot (N_3 - N_4) + N_2 \cdot N_3 \cdot N_4}{N_2 \cdot (N_3 - N_4) - N_3 \cdot N_4 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(C - D) \cdot (A + B) - A \cdot N_u}{A \cdot (C - D) + N_u \cdot (A + B)} = 0$$

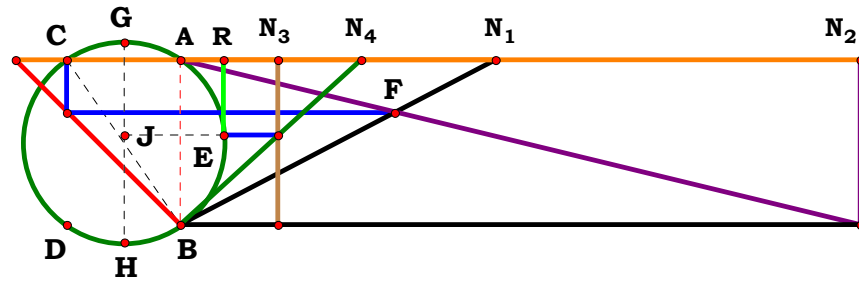
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot n \cdot (Z \cdot o - Y \cdot p) - X \cdot m \cdot (Y \cdot Z + Y \cdot p - Z \cdot o)}{X \cdot m \cdot (Y \cdot Z - Y \cdot p + Z \cdot o) + W \cdot Y \cdot Z \cdot n} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.40000$
 $N_4 = 1.00000$
 $R = 0.68750$

$$\frac{(N_1 + N_2) \cdot (N_3 - N_4) + N_2 \cdot N_3 \cdot N_4}{N_2 \cdot (N_3 - N_4) - N_3 \cdot N_4 \cdot (N_1 + N_2)} \cdot R = 0.00000$$



$N_1 = 1.90551$
 $N_2 = 4.11387$
 $N_3 = 0.59297$
 $N_4 = 1.09426$
 $R = 0.26245$

Unit. $AB := 1$ Given. $N_1 := 1.90551$ $N_2 := 4.11387$ $N_3 := .59297$
 $N_4 := 1.09426$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad GH := \sqrt{AB^2 + AC^2} \quad GJ := \frac{N_4 - N_3}{N_4} + \frac{GH - AB}{2}$$

$$EJ := \sqrt{GJ \cdot (GH - GJ)} \quad R := EJ - \frac{AC}{2} \quad R = 0.262447$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4 - AC \cdot \sqrt{N_4^2}}}{2 \cdot \sqrt{N_4^2}} = 0$$

$$R - \frac{\sqrt{4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3) + (N_2 \cdot N_4)^2 - N_2 \cdot N_4}}{2 \cdot (N_1 + N_2) \cdot N_4} = 0$$

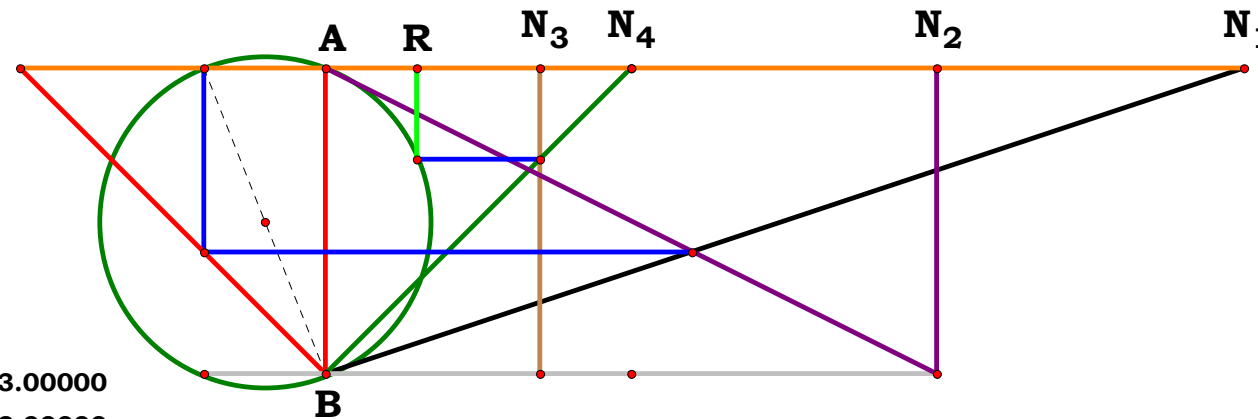
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}}{2 \cdot (A + B) \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

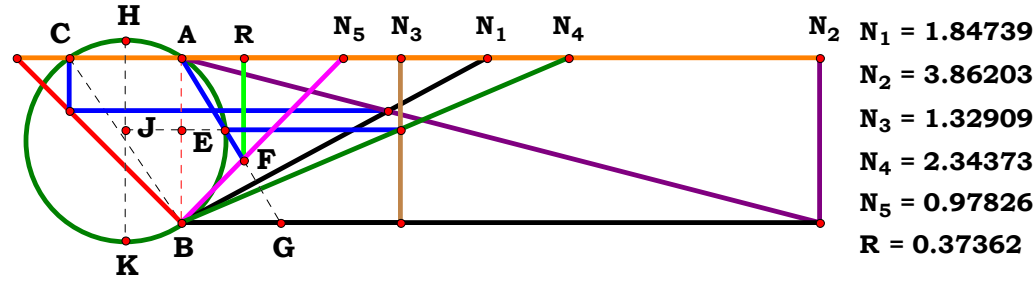
$$R - \frac{\sqrt{X^2 \cdot m^2 \cdot o^2 \cdot Z^2 + 4 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)^2 \cdot (Z \cdot o - Y \cdot p) - X \cdot Z \cdot m \cdot o}}{2 \cdot Z \cdot o \cdot (W \cdot n + X \cdot m)} = 0$$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.70000$
 $N_4 = 1.00000$
 $R = 0.30000$

$$\frac{\sqrt{4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_4 - N_3) + (N_2 \cdot N_4)^2 - N_2 \cdot N_4}}{2 \cdot (N_1 + N_2) \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.84739$ $N_2 := 3.86203$ $N_3 := 1.32909$
 $N_4 := 2.34373$ $N_5 := .97826$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

$$AC := \frac{N_2}{N_1 + N_2} \quad HK := \sqrt{AB^2 + AC^2} \quad AL := \frac{N_4 - N_3}{N_4}$$

$$HJ := AL + \frac{HK - AB}{2} \quad EJ := \sqrt{HJ \cdot (HK - HJ)}$$

$$BG := \frac{\left(EJ - \frac{AC}{2}\right) \cdot AB}{AL} \quad R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.37362$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}\right)}{\sqrt{N_4^2 \cdot \left(AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5\right) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

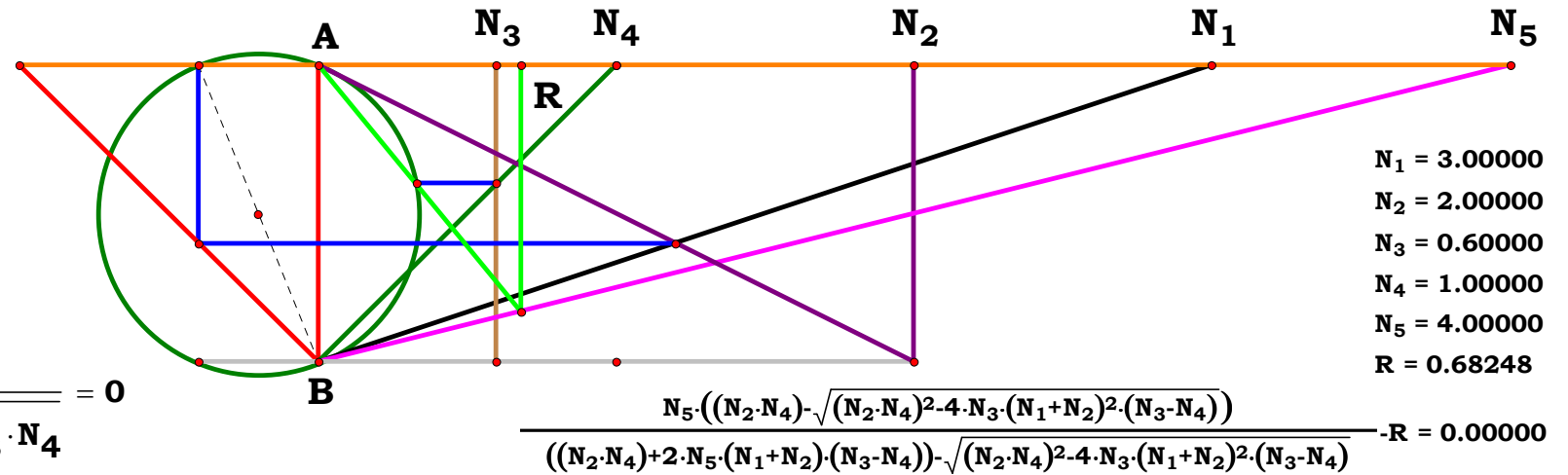
$$R - \frac{N_5 \cdot \left[N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}\right]}{N_2 \cdot N_4 + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2) - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}} = 0$$

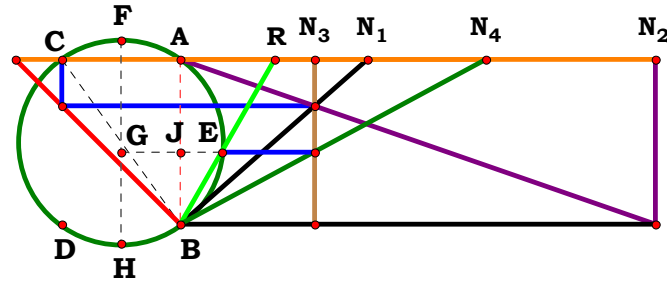
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)}\right]}{A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[W \cdot Y \cdot l \cdot n - \sqrt{W^2 \cdot l^2 \cdot n^2 \cdot Y^2 + 4 \cdot X \cdot o \cdot (V \cdot m + W \cdot l)^2 \cdot (Y \cdot n - X \cdot o)}\right]}{2 \cdot Z \cdot (X \cdot o - Y \cdot n) \cdot (V \cdot m + W \cdot l) + W \cdot Y \cdot l \cdot n \cdot p - p \cdot \sqrt{W^2 \cdot l^2 \cdot n^2 \cdot Y^2 + 4 \cdot X \cdot o \cdot (V \cdot m + W \cdot l)^2 \cdot (Y \cdot n - X \cdot o)}} = 0$$





$N_1 = 1.13064$
 $N_2 = 2.87408$
 $N_3 = 0.81574$
 $N_4 = 1.84976$
 $R = 0.57544$

Unit. $AB := 1$ Given. $N_1 := 1.13064$ $N_2 := 2.87408$ $N_3 := .81574$ $N_4 := 1.84976$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad AE := \frac{N_4 - N_3}{N_4}$$

$$BE := AB - AE \quad FH := \sqrt{AB^2 + AC^2}$$

$$FG := AE + \frac{FH - AB}{2} \quad EG := \sqrt{FG \cdot (FH - FG)}$$

$$EJ := EG - \frac{AC}{2} \quad R := \frac{EJ \cdot AB}{BE}$$

$$R = 0.575437$$

Definitions.

$$R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} = 0$$

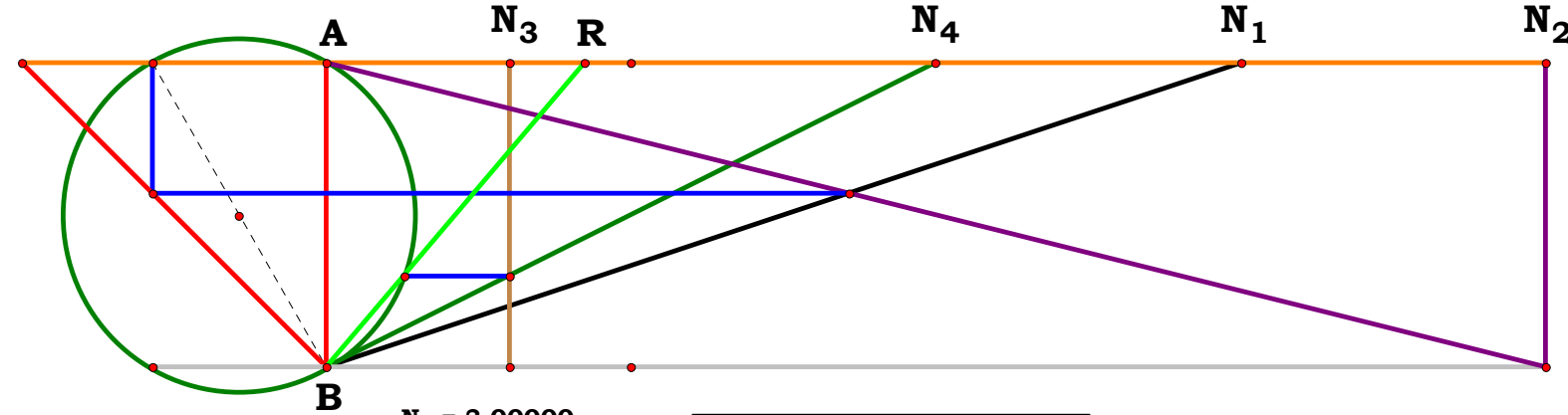
$$R - \frac{\sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)} - N_2 \cdot N_4}{2 \cdot (N_1 + N_2) \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C}{2 \cdot (A + B) \cdot D} = 0$$

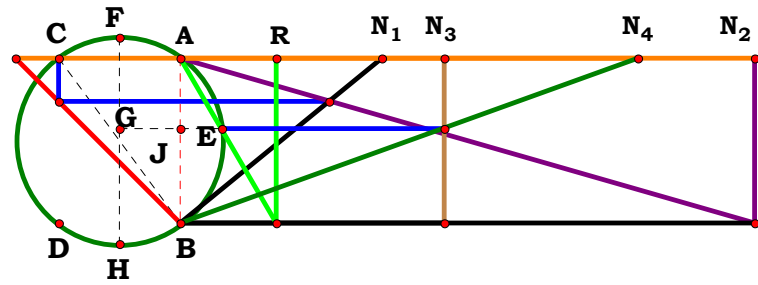
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)^2 \cdot (Z \cdot o - Y \cdot p) + X^2 \cdot Z^2 \cdot m^2 \cdot o^2} - X \cdot Z \cdot m \cdot o}{2 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)} = 0$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 0.60000$
 $N_4 = 2.00000$
 $R = 0.84772$

$$\frac{\sqrt{(N_2 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)} - (N_2 \cdot N_4)}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$



$N_1 = 1.21782$
 $N_2 = 3.47460$
 $N_3 = 1.60029$
 $N_4 = 2.76991$
 $R = 0.58505$

Unit. $AB := 1$ Given. $N_1 := 1.21782$ $N_2 := 3.47460$ $N_3 := 1.60029$
 $N_4 := 2.76991$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad AJ := \frac{N_4 - N_3}{N_4} \quad FH := \sqrt{AB^2 + AC^2}$$

$$FG := AJ + \frac{FH - AB}{2} \quad EG := \sqrt{FG \cdot (FH - FG)}$$

$$EJ := EG - \frac{AC}{2} \quad R := \frac{EJ \cdot AB}{AJ} \quad R = 0.585047$$

Definitions.

$$R - \frac{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{2 \cdot (N_3 - N_4) \cdot \sqrt{N_4^2}} = 0$$

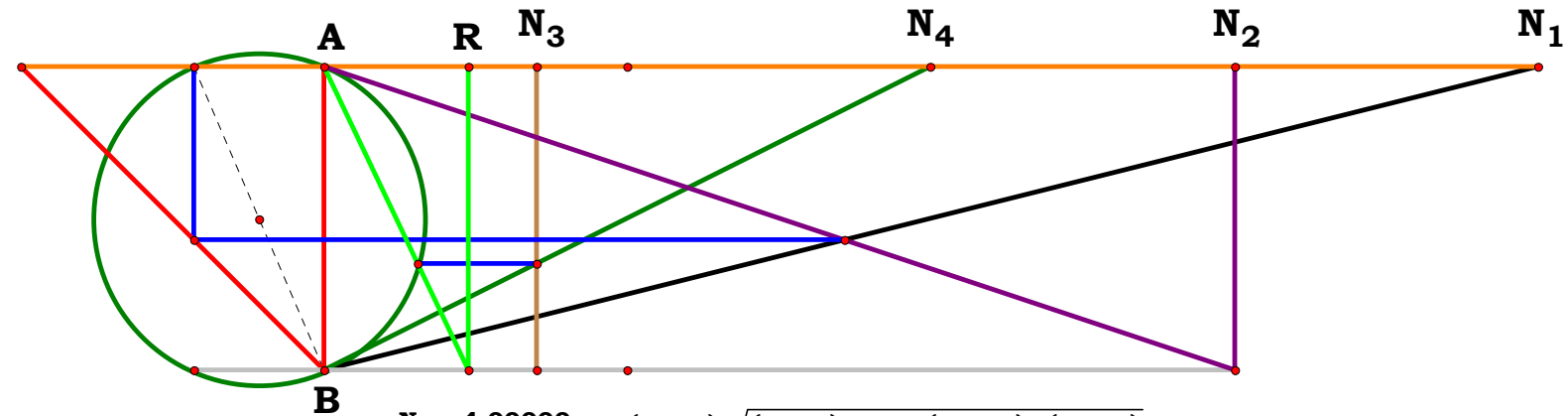
$$R - \frac{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C}{2 \cdot (A + B) \cdot (C - D)} = 0$$

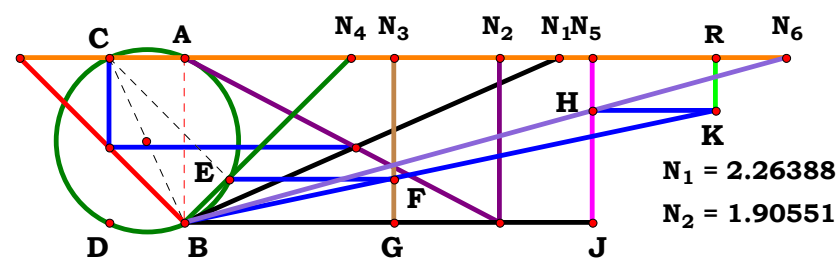
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot m \cdot o - \sqrt{X^2 \cdot m^2 \cdot o^2 \cdot Z^2 + 4 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)^2 \cdot (Z \cdot o - Y \cdot p)}}{2 \cdot (W \cdot n + X \cdot m) \cdot (Y \cdot p - Z \cdot o)} = 0$$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 0.70000$
 $N_4 = 2.00000$
 $R = 0.47478$

$$\frac{(N_2 \cdot N_4) - \sqrt{(N_2 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 - N_4)} - R = 0.00000$$



N₃ = 1.27097
N₄ = 1.00709
N₅ = 2.46987
N₆ = 3.64185
R = 3.21676

Unit.	AB := 1	Given.	$N_1 := 2.26388$	$N_2 := 1.90551$	$N_3 := 1.27097$
			$N_4 := 1.00709$	$N_5 := 2.46987$	$N_6 := 3.64185$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}}$$

U := 18 V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{k} := \frac{\mathbf{U}}{N_1} \quad \mathbf{l} := \frac{\mathbf{V}}{N_2} \quad \mathbf{m} := \frac{\mathbf{W}}{N_3} \quad \mathbf{n} := \frac{\mathbf{X}}{N_4} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_5} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_6}$$

Descriptions.

$$\mathbf{AC} := \frac{N_2}{N_1 + N_2} \quad \mathbf{HN}_5 := \frac{N_6 - N_5}{N_6} \quad \mathbf{HJ} := \mathbf{AB} - \mathbf{HN}_5$$

$$\mathbf{BN}_4 := \sqrt{\mathbf{N}_4^2 + \mathbf{AB}^2} \quad \mathbf{CN}_4 := \mathbf{N}_4 + \mathbf{AC}$$

$$\mathbf{EN}_4 := \frac{\mathbf{N}_4 \cdot \mathbf{CN}_4}{\mathbf{BN}_4} \quad \mathbf{BE} := \mathbf{BN}_4 - \mathbf{EN}_4$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{BE}}{\mathbf{BN}_4} \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{HJ}}{\mathbf{FG}} \quad \mathbf{R} = 3.216733$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 - AC \cdot N_4 \cdot N_6} = 0$$

$$R - \frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_6 \cdot (N_1 + N_2 - N_2 \cdot N_4)} = 0$$

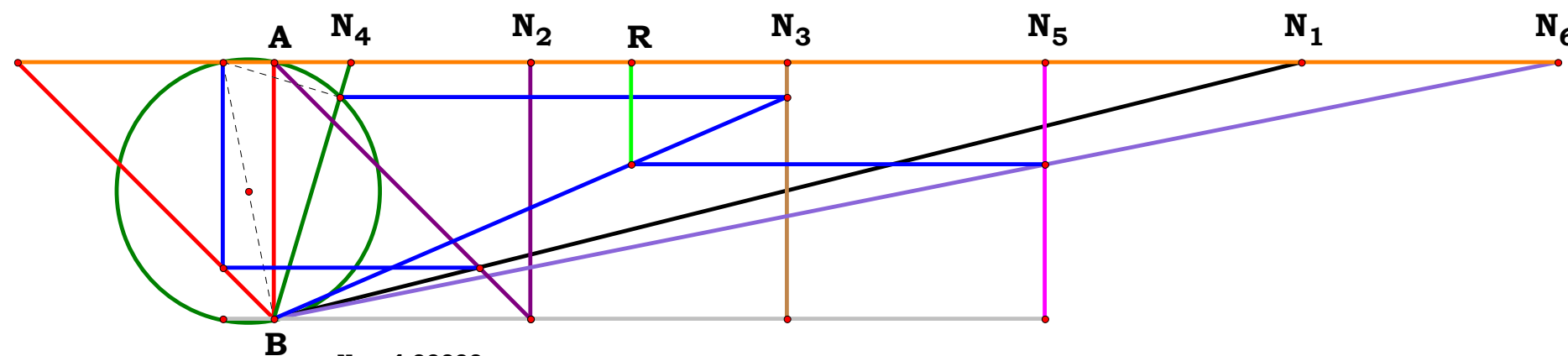
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{N}_4 - \frac{\mathbf{N}_u}{\mathbf{D}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{N}_u}{\mathbf{E}} = 0 \quad \mathbf{N}_6 - \frac{\mathbf{N}_u}{\mathbf{F}} = 0$$

$$\mathbf{R} - \frac{\mathbf{F} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]} = 0$$

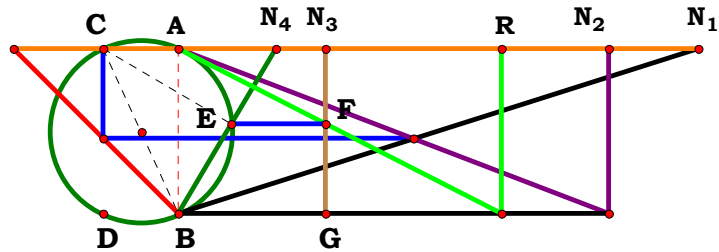
$$\mathbf{N}_1 - \frac{\mathbf{U}}{\mathbf{k}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{V}}{\mathbf{l}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_6 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{U} \cdot \mathbf{1} + \mathbf{V} \cdot \mathbf{k}) \cdot (\mathbf{N}_4^2 + 1)}{\mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{o} \cdot (\mathbf{U} \cdot \mathbf{1} + \mathbf{V} \cdot \mathbf{k} - \mathbf{N}_4 \cdot \mathbf{V} \cdot \mathbf{k})} = 0$$



N₁ = 4.00000
N₂ = 1.00000
N₃ = 2.00000
N₄ = 0.30000
N₅ = 3.00000
N₆ = 5.00000
R = 1.39149

$$\frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_6 \cdot ((N_1 + N_2) - N_2 \cdot N_4)} \cdot R = 0.00000$$



$N_1 = 3.14529$
 $N_2 = 2.60288$
 $N_3 = 0.89323$
 $N_4 = 0.59060$
 $R = 1.95505$

Unit. $AB := 1$ Given. $N_1 := 3.14529$ $N_2 := 2.60288$ $N_3 := .89323$ $N_4 := .59060$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$FN_3 := \frac{AB \cdot EN_4}{BN_4} \quad R := \frac{N_3 \cdot AB}{FN_3}$$

$$R = 1.955066$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (AC + N_4)} = 0$$

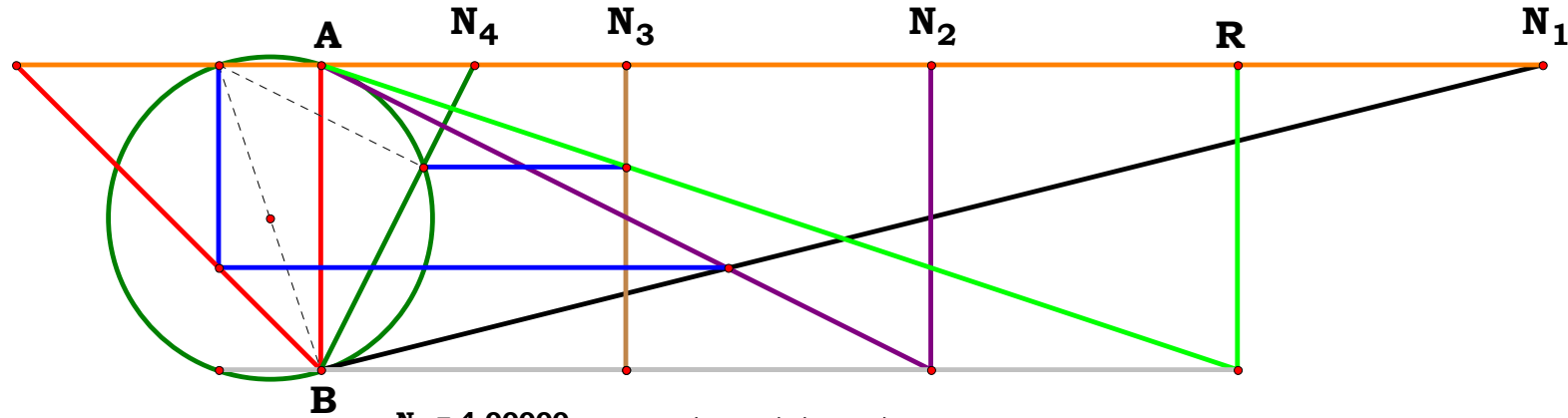
$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_4 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(D^2 + N_u^2) \cdot (A + B)}{A \cdot C \cdot D + C \cdot N_u \cdot (A + B)} = 0$$

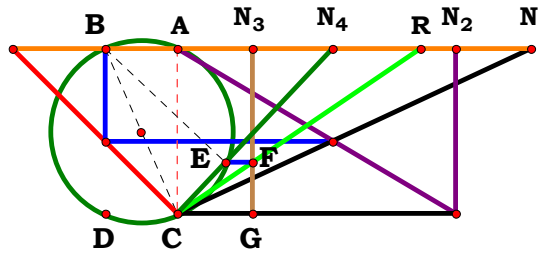
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot (W \cdot n + X \cdot m) \cdot (Z^2 + p^2)}{Z \cdot o \cdot (W \cdot Z \cdot n + X \cdot Z \cdot m + X \cdot m \cdot p)} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.50000$
 $R = 3.00000$

$$\frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_4 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4)} \cdot R = 0.00000$$



$N_1 = 2.13797$
 $N_2 = 1.68273$
 $N_3 = 0.45737$
 $N_4 = 0.93929$
 $R = 1.46831$

Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 1.68273$ $N_3 := .45737$ $N_4 := .93929$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad R := \frac{N_3 \cdot BN_4}{BE}$$

$$R = 1.468313$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{1 - AC \cdot N_4} = 0$$

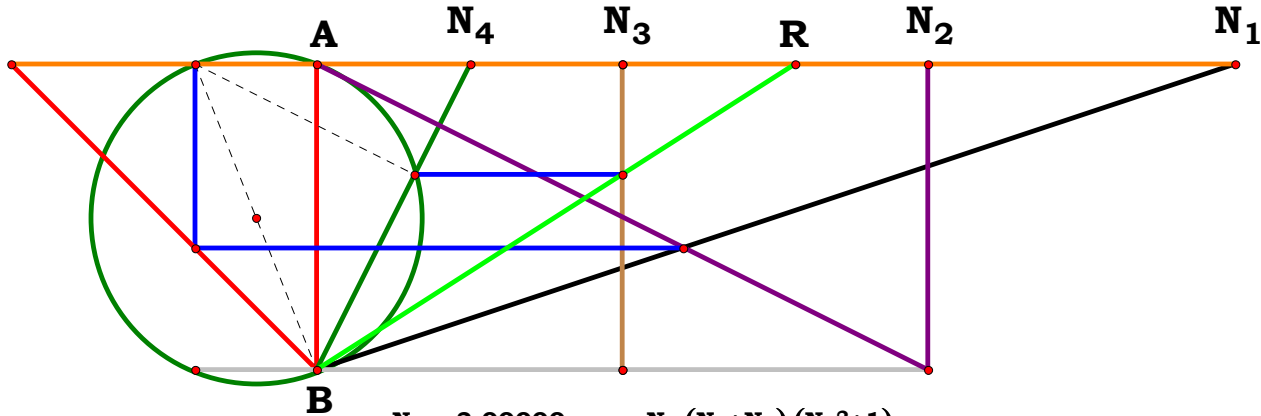
$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_1 + N_2 - N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

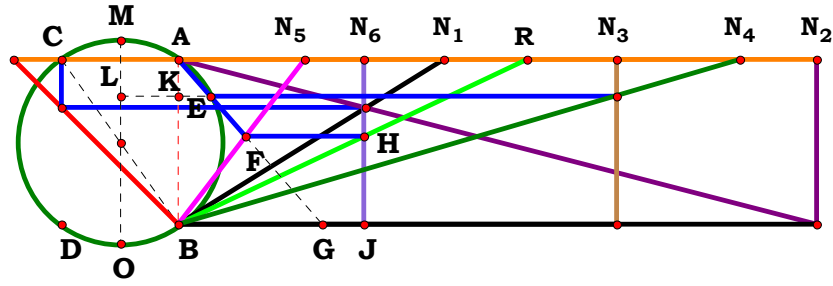
$$R - \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [D \cdot (A + B) - A \cdot N_u]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot (W \cdot n + X \cdot m) \cdot (Z^2 + p^2)}{o \cdot p \cdot (W \cdot n \cdot p - X \cdot Z \cdot m + X \cdot m \cdot p)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.50000$
 $R = 1.56250$
 $\frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{(N_1 + N_2) - N_2 \cdot N_4} - R = 0.00000$



$$\begin{aligned} N_1 &= 1.60525 & N_4 &= 3.39948 \\ N_2 &= 3.86203 & N_5 &= 0.76518 \\ N_3 &= 2.65604 & N_6 &= 1.12355 \\ R &= 2.11046 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.60525 \quad N_2 := 3.86203 \quad N_3 := 2.65604$$

$$N_4 := 3.39948 \quad N_5 := .76518 \quad N_6 := 1.12355$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$AC := \frac{N_2}{N_1 + N_2} \quad AK := \frac{N_4 - N_3}{N_4} \quad MO := \sqrt{AB^2 + AC^2}$$

$$ML := AK + \frac{MO - AB}{2} \quad EL := \sqrt{ML \cdot (MO - ML)}$$

$$EK := EL - \frac{AC}{2} \quad BG := \frac{EK \cdot AB}{AK} \quad HJ := \frac{BG}{BG + N_5}$$

$$R := \frac{N_6}{HJ} \quad R = 2.110458$$

Definitions.

$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2} \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right]}{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)} = 0$$

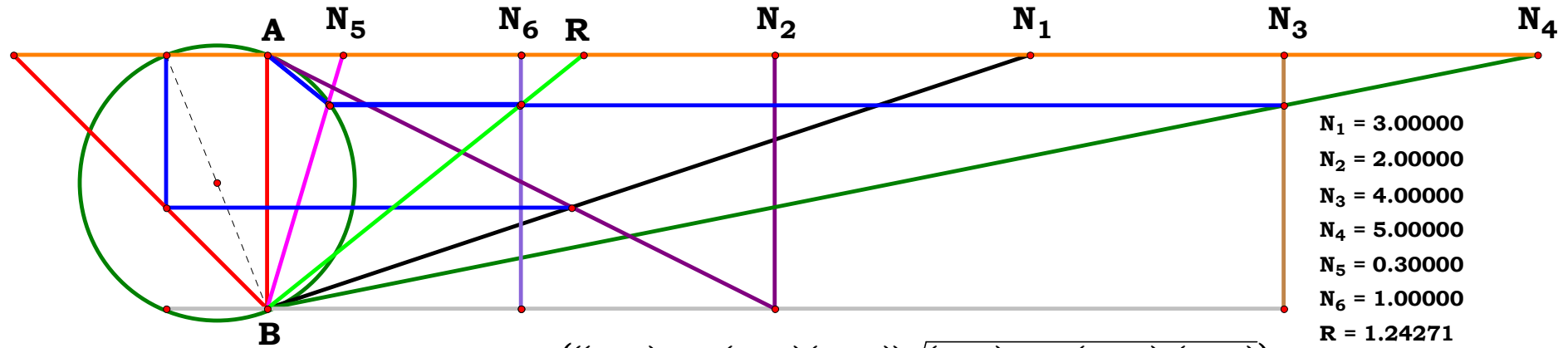
$$R - \frac{N_6 \cdot \left[N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)} + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2) \right]}{N_2 \cdot N_4 - \sqrt{N_2^2 \cdot N_4^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B) \right]}{E \cdot F \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right]} = 0$$

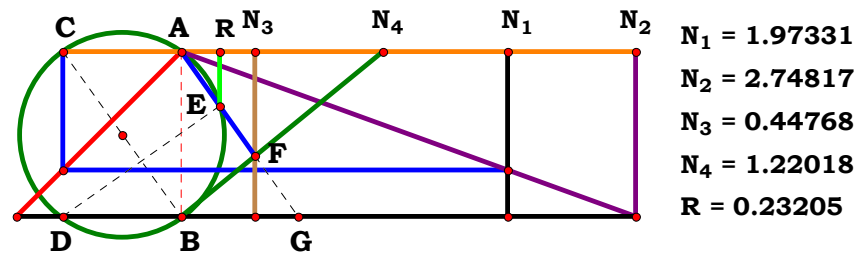
$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[2 \cdot Y \cdot (W \cdot n - X \cdot m) \cdot (U \cdot l + V \cdot k) + V \cdot X \cdot k \cdot m \cdot o - o \cdot \sqrt{V^2 \cdot X^2 \cdot k^2 \cdot m^2 - 4 \cdot W \cdot n \cdot (U \cdot l + V \cdot k)^2 \cdot (W \cdot n - X \cdot m)} \right]}{o \cdot p \cdot \left[V \cdot X \cdot k \cdot m - \sqrt{V^2 \cdot X^2 \cdot k^2 \cdot m^2 - 4 \cdot W \cdot n \cdot (U \cdot l + V \cdot k)^2 \cdot (W \cdot n - X \cdot m)} \right]} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 4.00000 \\ N_4 &= 5.00000 \\ N_5 &= 0.30000 \\ N_6 &= 1.00000 \\ R &= 1.24271 \end{aligned}$$

$$\frac{N_6 \cdot \left(((N_2 \cdot N_4) + 2 \cdot N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2)) - \sqrt{(N_2 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)} \right)}{(N_2 \cdot N_4) - \sqrt{(N_2 \cdot N_4)^2 - 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3 - N_4)}} - R = 0.00000$$



Unit. AB := 1 Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .44768$ $N_4 := 1.22018$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

Descriptions.

$$\mathbf{AC} := \frac{N_1}{N_2} \qquad \mathbf{FN}_3 := \frac{N_4 - N_3}{N_4}$$

$$\mathbf{AF} := \sqrt{\mathbf{N}_3^2 + \mathbf{FN}_3^2} \quad \mathbf{AG} := \frac{\mathbf{AF} \cdot \mathbf{AB}}{\mathbf{FN}_3}$$

$$\mathbf{BG} := \frac{\mathbf{N}_3 \cdot \mathbf{AB}}{\mathbf{FN}_3} \quad \mathbf{DG} := \mathbf{BG} + \mathbf{AC}$$

$$\mathbf{EG} := \frac{\mathbf{N}_3 \cdot \mathbf{DG}}{\mathbf{AF}} \quad \mathbf{AE} := \mathbf{AG} - \mathbf{EG}$$

$$R := \frac{N_3 \cdot AE}{AF} \quad R = 0.232053$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_4 - N_3 - AC \cdot N_3 \cdot N_4)}{N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2} = 0$$

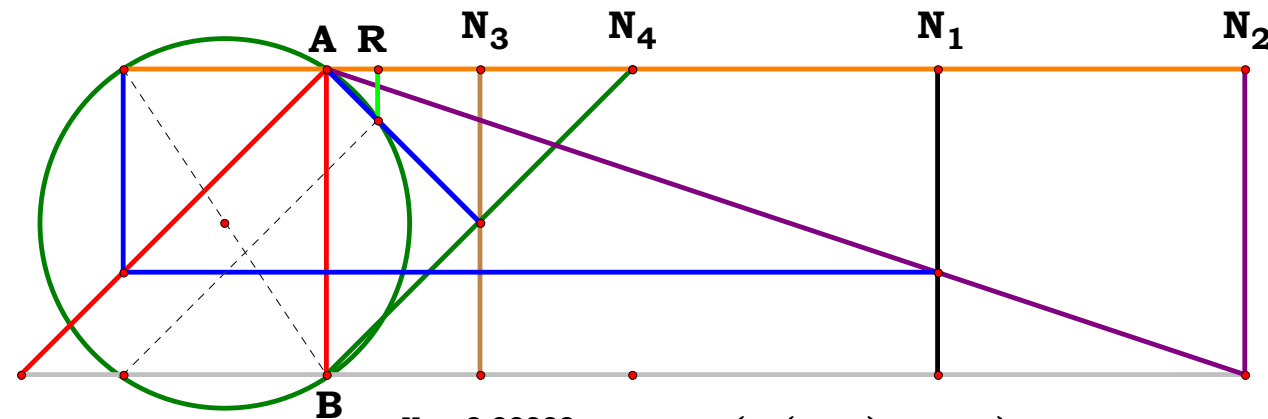
$$R - \frac{N_3 \cdot N_4 \cdot [N_2 \cdot (N_4 - N_3) - N_1 \cdot N_3 \cdot N_4]}{N_2 \cdot [N_3 \cdot N_4 \cdot (N_3 \cdot N_4 - 2) + N_3^2 + N_4^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [A \cdot (C - D) - B \cdot N_u]}{A \cdot [(C - D)^2 + N_u^2]} = 0$$

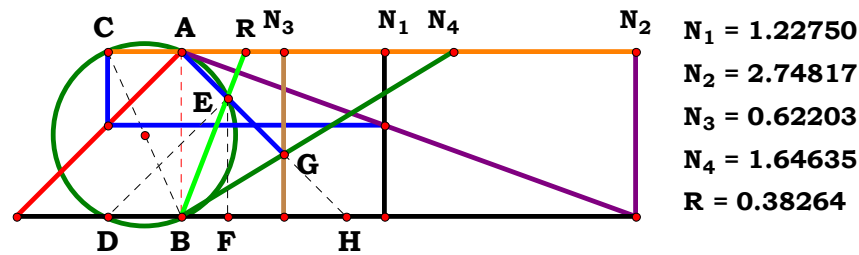
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Z \cdot m \cdot o - X \cdot Y \cdot m \cdot p - W \cdot Y \cdot Z \cdot n)}{X \cdot m \cdot (Y^2 \cdot Z^2 + Y^2 \cdot p^2 - 2 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} = 0$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 0.50000
N₄ = 1.00000
R = 0.16667

$$\frac{N_3 \cdot N_4 \cdot (N_2 \cdot (N_4 - N_3) - N_1 \cdot N_3 \cdot N_4)}{N_2 \cdot (N_3 \cdot N_4 \cdot (N_3 \cdot N_4 - 2) + N_3^2 + N_4^2)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.22750$ $N_2 := 2.74817$ $N_3 := .62203$ $N_4 := 1.64635$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad GN_3 := \frac{N_4 - N_3}{N_4} \quad AG := \sqrt{N_3^2 + GN_3^2}$$

$$BH := \frac{N_3 \cdot AB}{GN_3} \quad DH := BH + AC \quad EH := \frac{N_3 \cdot DH}{AG}$$

$$FH := \frac{N_3 \cdot EH}{AG} \quad BF := BH - FH$$

$$EF := \frac{AB \cdot FH}{BH} \quad R := \frac{BF \cdot AB}{EF}$$

$$R = 0.382629$$

Definitions.

$$R - \frac{N_4 - N_3 - AC \cdot N_3 \cdot N_4}{AC \cdot N_4 - AC \cdot N_3 + N_3 \cdot N_4} = 0$$

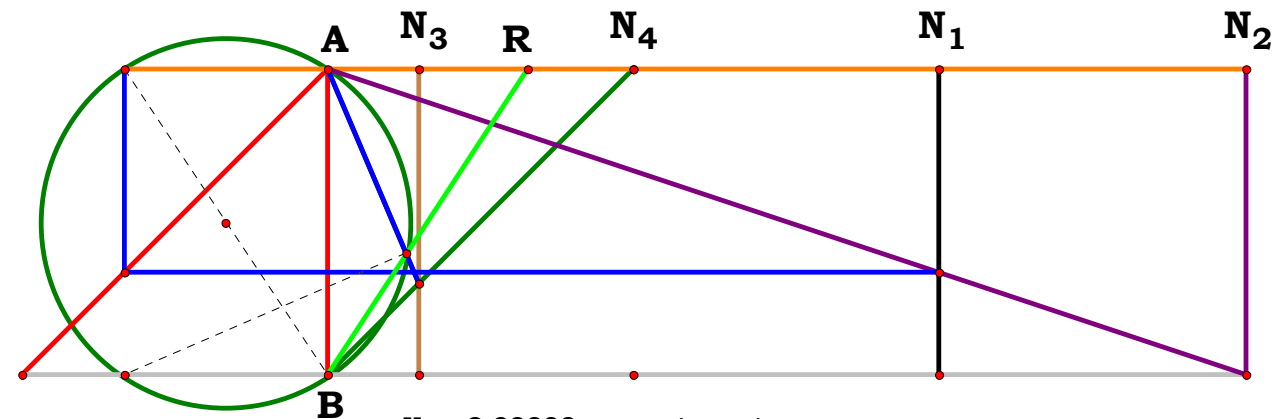
$$R - \frac{N_2 \cdot (N_3 - N_4) + N_1 \cdot N_3 \cdot N_4}{N_1 \cdot (N_3 - N_4) - N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

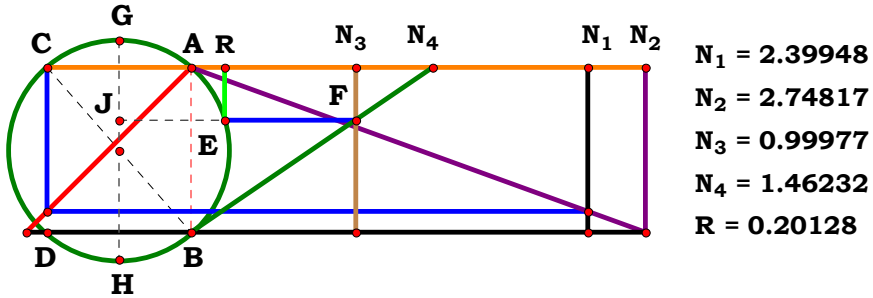
$$R - \frac{A \cdot (C - D) - B \cdot N_u}{B \cdot (C - D) + A \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot n + X \cdot Y \cdot m \cdot p - X \cdot Z \cdot m \cdot o}{W \cdot Y \cdot n \cdot p - X \cdot Y \cdot Z \cdot m - W \cdot Z \cdot n \cdot o} = 0$$



$$\frac{N_2 \cdot (N_3 - N_4) + N_1 \cdot N_3 \cdot N_4}{N_1 \cdot (N_3 - N_4) - N_2 \cdot N_3 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 2.74817$ $N_3 := .99977$ $N_4 := 1.46232$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad GH := \sqrt{AB^2 + AC^2}$$

$$GJ := \frac{N_4 - N_3}{N_4} + \frac{GH - AB}{2} \quad EJ := \sqrt{GJ \cdot (GH - GJ)}$$

$$R := EJ - \frac{AC}{2} \quad R = 0.201283$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{N_4^2}}{2 \cdot \sqrt{N_4^2}} = 0$$

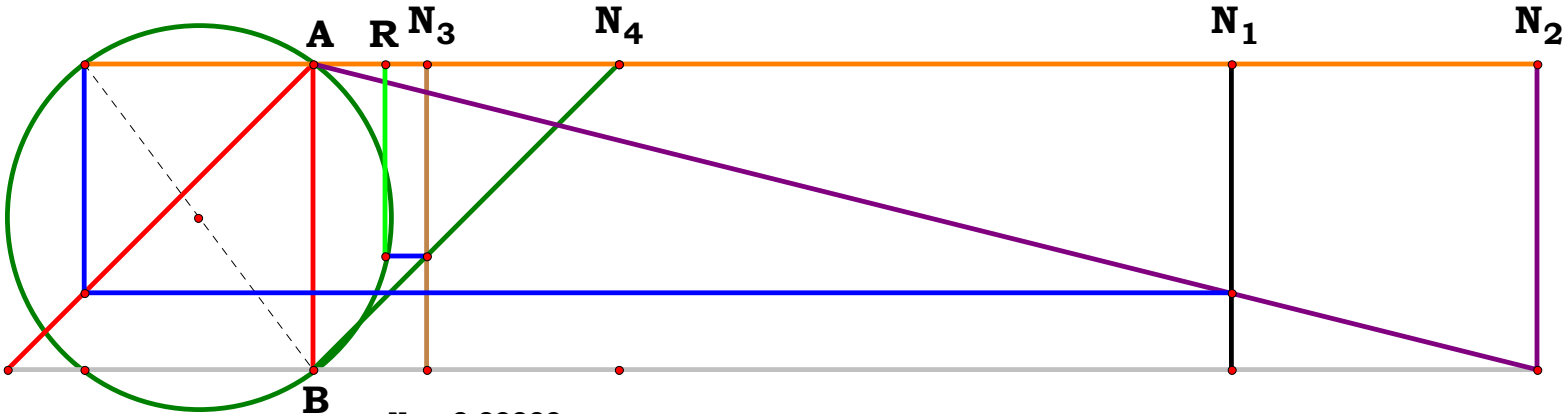
$$R - \frac{\sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)} - N_1 \cdot N_4}{2 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

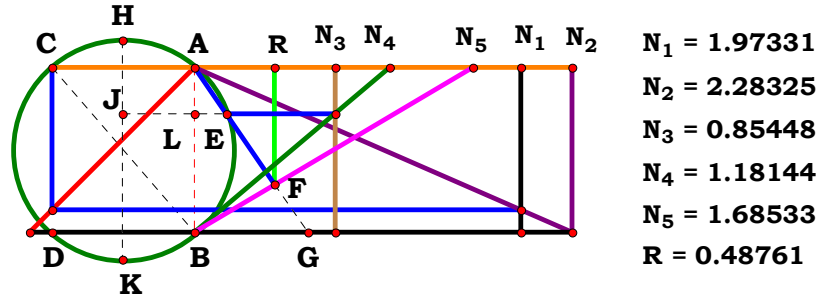
$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C}{2 \cdot A \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y \cdot m^2 \cdot p \cdot (Y \cdot p - Z \cdot o)} - W \cdot Z \cdot n \cdot o}{2 \cdot X \cdot Z \cdot m \cdot o} = 0$$



$$\frac{\sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)} - (N_1 \cdot N_4)}{2 \cdot N_2 \cdot N_4} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.28325$ $N_3 := .85448$

$N_4 := 1.18144$ $N_5 := 1.68533$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad HK := \sqrt{AB^2 + AC^2}$$

$$AL := \frac{N_4 - N_3}{N_4} \quad HJ := AL + \frac{HK - AB}{2}$$

$$EJ := \sqrt{HJ \cdot (HK - HJ)} \quad BG := -\frac{AB \cdot (AC - 2 \cdot EJ)}{2 \cdot AL}$$

$$R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.487604$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{\sqrt{N_4^2} \cdot \left(AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5 \right) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}} = 0$$

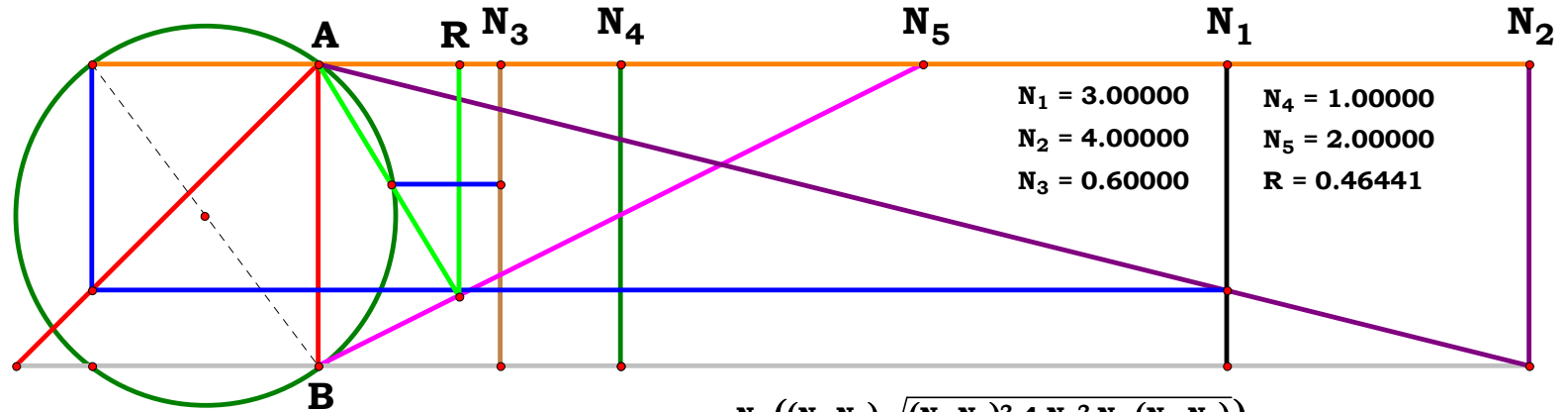
$$R - \frac{N_5 \cdot \left[N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)} \right]}{N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4) - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} + 2 \cdot N_u \cdot A \cdot (C - D) - B \cdot C \cdot E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[V \cdot Y \cdot m \cdot n - \sqrt{V^2 \cdot Y^2 \cdot m^2 \cdot n^2 - 4 \cdot W^2 \cdot X \cdot l^2 \cdot o \cdot (X \cdot o - Y \cdot n)} \right]}{2 \cdot W \cdot Z \cdot l \cdot (X \cdot o - Y \cdot n) + V \cdot Y \cdot m \cdot n \cdot p - p \cdot \sqrt{V^2 \cdot Y^2 \cdot m^2 \cdot n^2 - 4 \cdot W^2 \cdot X \cdot l^2 \cdot o \cdot (X \cdot o - Y \cdot n)}} = 0$$



$$\frac{N_5 \cdot \left((N_1 \cdot N_4) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)} \right)}{\left((N_1 \cdot N_4) + 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4) \right) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}} \cdot R = 0.00000$$


$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{AE} := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} \quad \mathbf{BE} := \mathbf{AB} - \mathbf{AE}$$

$$\mathbf{FH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{FG} := \mathbf{AE} + \frac{\mathbf{FH} - \mathbf{AB}}{2}$$

$$\mathbf{EG} := \sqrt{\mathbf{FG} \cdot (\mathbf{FH} - \mathbf{FG})} \quad \mathbf{EJ} := \mathbf{EG} - \frac{\mathbf{AC}}{2}$$

$$R := \frac{EJ \cdot AB}{BE} \quad R = 0.303689$$

$$R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} = 0$$

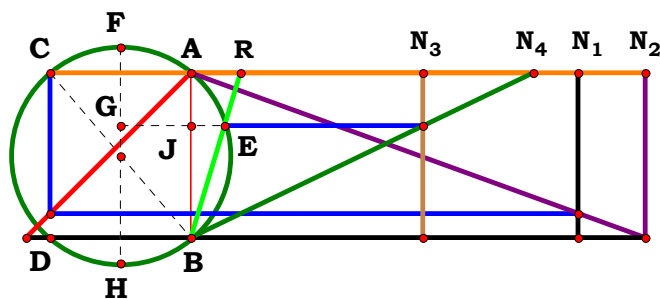
$$R - \frac{\sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) - N_1 \cdot N_4}}{2 \cdot N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C}{2 \cdot A \cdot D} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{\sqrt{W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y \cdot m^2 \cdot p \cdot (Y \cdot p - Z \cdot o)} - W \cdot Z \cdot n \cdot o}{2 \cdot X \cdot Y \cdot m \cdot p} = 0$$

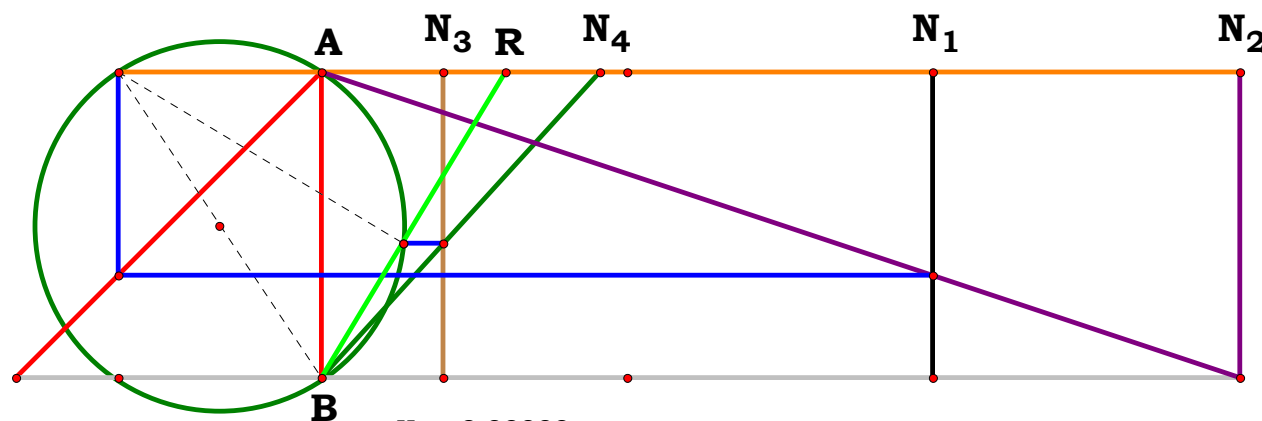


N₁ = 2.34137
N₂ = 2.74817
N₃ = 1.40657
N₄ = 2.07253
R = 0.30369

Unit. AB := 1 Given. $N_1 := 2.34137$ $N_2 := 2.74817$ $N_3 := 1.40657$ $N_4 := 2.07253$

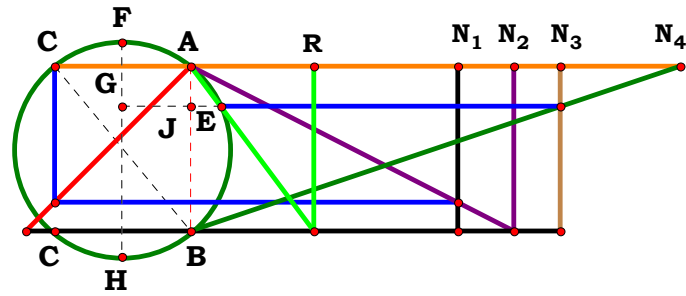
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 0.40000
N₄ = 0.91111
R = 0.60245

$$\frac{\sqrt{(\mathbf{N}_1 \cdot \mathbf{N}_4)^2 - 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_3 - \mathbf{N}_4)} - (\mathbf{N}_1 \cdot \mathbf{N}_4)}{2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3} \cdot \mathbf{R} = 0.00000$$

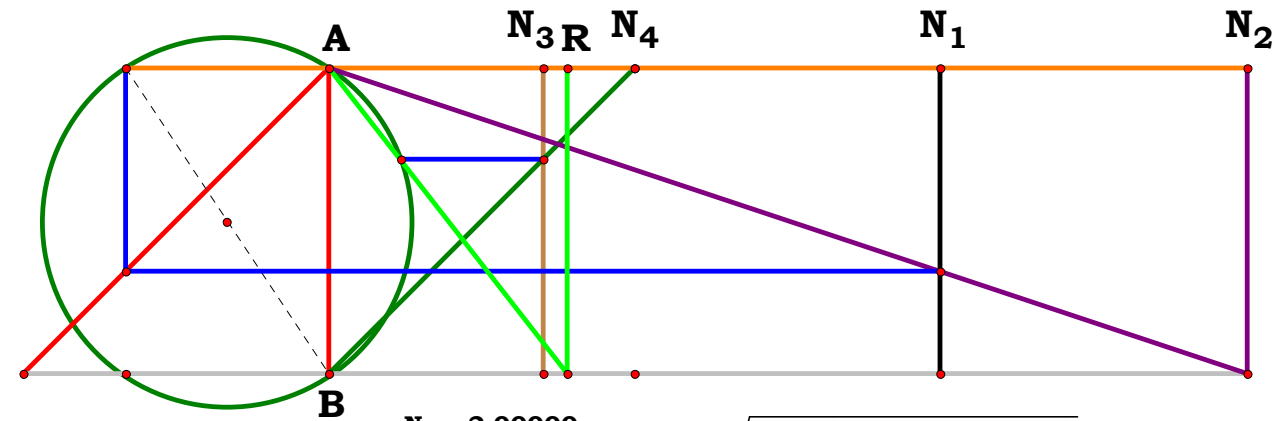


$N_1 = 1.61493$
 $N_2 = 1.95394$
 $N_3 = 2.23955$
 $N_4 = 2.96362$
 $R = 0.74864$

Unit. $AB := 1$ Given. $N_1 := 1.61493$ $N_2 := 1.95394$ $N_3 := 2.23955$ $N_4 := 2.96362$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.70000$
 $N_4 = 1.00000$
 $R = 0.77778$

$\frac{(N_1 \cdot N_4) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_2 \cdot (N_3 - N_4)} - R = 0.00000$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad AJ := \frac{N_4 - N_3}{N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \quad FG := AJ + \frac{FH - AB}{2}$$

$$EG := \sqrt{FG \cdot (FH - FG)} \quad EJ := EG - \frac{AC}{2}$$

$$R := \frac{EJ \cdot AB}{AJ} \quad R = 0.748639$$

Definitions.

$$R - \frac{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{2 \cdot (N_3 - N_4) \cdot \sqrt{N_4^2}} = 0$$

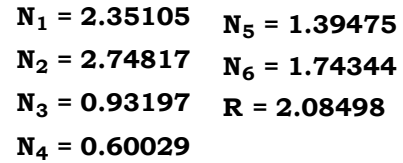
$$R - \frac{N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}}{2 \cdot N_2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C}{2 \cdot A \cdot (C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Z \cdot n \cdot o - \sqrt{W^2 \cdot Z^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y \cdot m^2 \cdot p \cdot (Y \cdot p - Z \cdot o)}}{2 \cdot X \cdot m \cdot (Y \cdot p - Z \cdot o)} = 0$$



$$\mathbf{BN}_4 := \sqrt{\mathbf{N}_4^2 + \mathbf{AB}^2} \quad \mathbf{CN}_4 := \mathbf{N}_4 + \mathbf{AC}$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot \mathbf{BE}}{\mathbf{BN}_4} \quad \mathbf{R} := \frac{\mathbf{N}_3 \cdot \mathbf{HJ}}{\mathbf{FG}} \quad \mathbf{R} = 2.084969$$

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 - AC \cdot N_4 \cdot N_6} = 0$$

$$R - \frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 \cdot (N_2 - N_1 \cdot N_4)} = 0$$

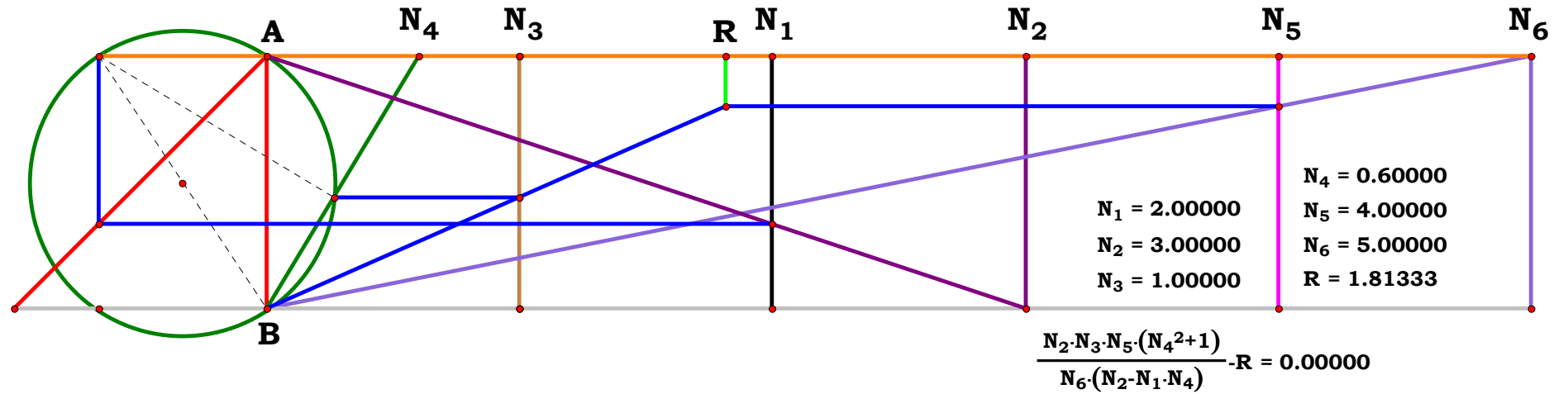
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

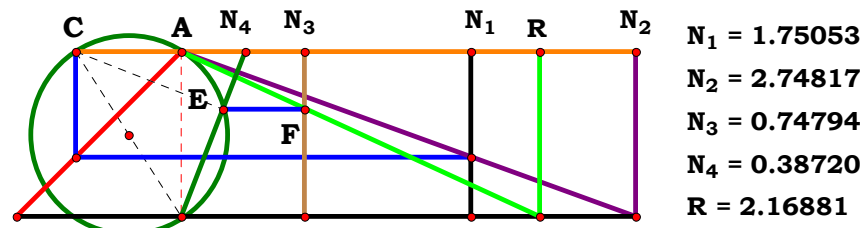
$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}{[\mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{U}}{\mathbf{k}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{V}}{\mathbf{l}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_6 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{V} \cdot \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{k} \cdot \mathbf{p} \cdot (\mathbf{X}^2 + \mathbf{n}^2)}{\mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{n} \cdot \mathbf{o} \cdot (\mathbf{V} \cdot \mathbf{k} \cdot \mathbf{n} - \mathbf{U} \cdot \mathbf{X} \cdot \mathbf{l})} = 0$$

$$\mathbf{k} := \frac{\mathbf{U}}{N_1} \quad \mathbf{l} := \frac{\mathbf{V}}{N_2} \quad \mathbf{m} := \frac{\mathbf{W}}{N_3} \quad \mathbf{n} := \frac{\mathbf{X}}{N_4} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_5} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_6}$$





Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 2.74817$ $N_3 := .74794$ $N_4 := .38720$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$FN_3 := \frac{AB \cdot EN_4}{BN_4} \quad R := \frac{N_3 \cdot AB}{FN_3}$$

$$R = 2.168823$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (AC + N_4)} = 0$$

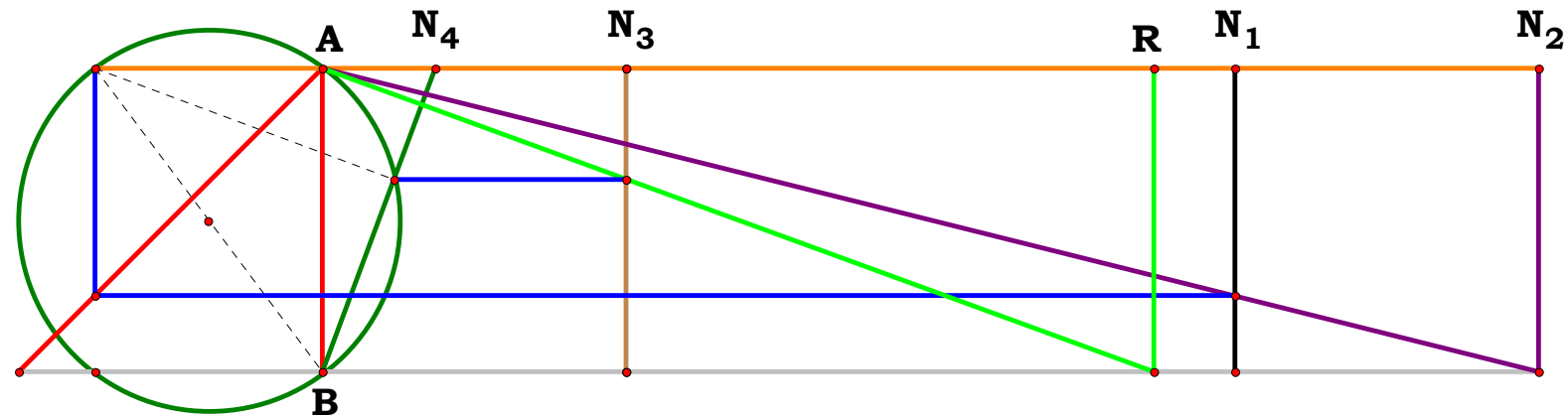
$$R - \frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (N_1 + N_2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

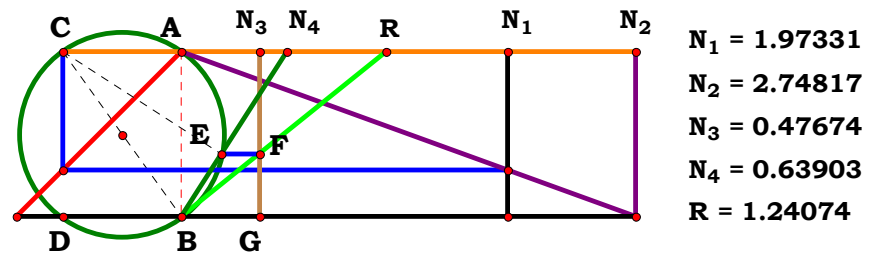
$$R - \frac{A \cdot (D^2 + N_u^2)}{C \cdot (B \cdot D + A \cdot N_u)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot (Z^2 + p^2)}{X \cdot m \cdot o \cdot Z^2 + W \cdot n \cdot o \cdot p \cdot Z} = 0$$



$$\frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (N_1 + N_2 \cdot N_4)} - R = 0.00000$$



N₁ = 1.97331
N₂ = 2.74817
N₃ = 0.47674
N₄ = 0.63903
R = 1.24074

Unit. AB := 1 Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .47674$ $N_4 := .63903$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{CN}_4 := \mathbf{N}_4 + \mathbf{AC} \quad \mathbf{BN}_4 := \sqrt{\mathbf{N}_4^2 + \mathbf{AB}^2}$$

$$\mathbf{EN}_4 := \frac{\mathbf{N}_4 \cdot \mathbf{CN}_4}{\mathbf{BN}_4} \quad \mathbf{BE} := \mathbf{BN}_4 - \mathbf{EN}_4$$

$$R := \frac{N_3 \cdot BN_4}{BE} \quad R = 1.240736$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{1 - AC \cdot N_4} = 0$$

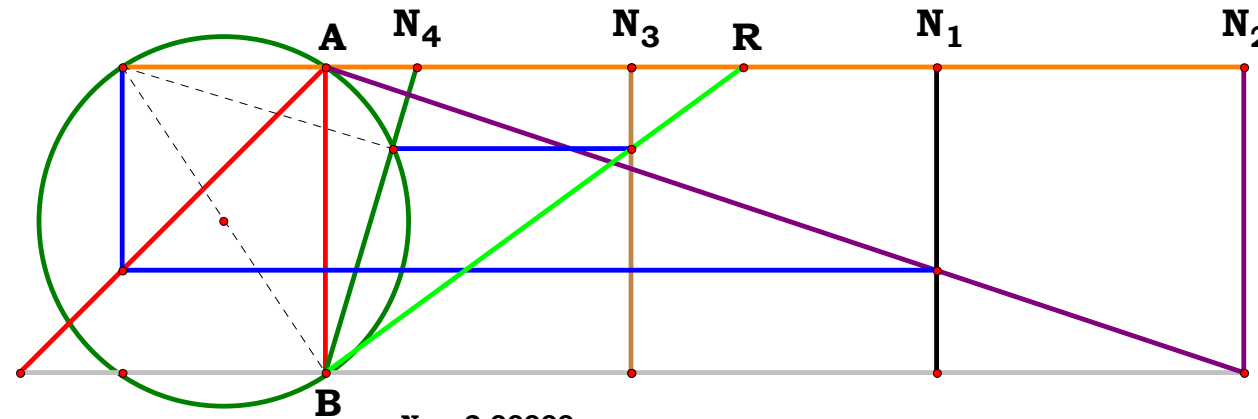
$$R - \frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_2 - N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})} = 0$$

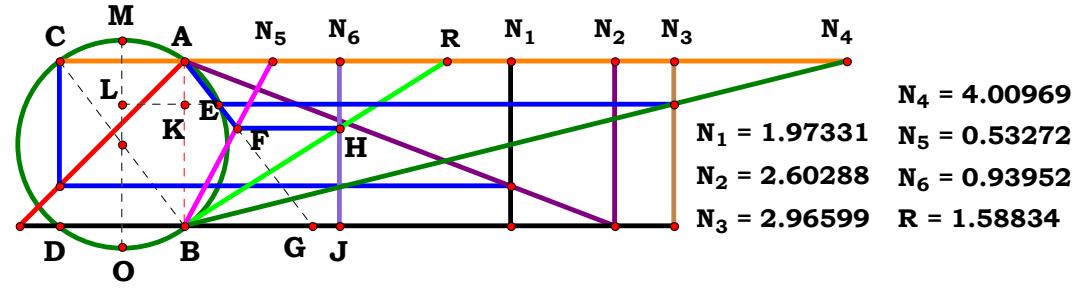
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot (Z^2 + p^2)}{X \cdot m \cdot o \cdot p^2 - W \cdot Z \cdot n \cdot o \cdot p} = 0$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 1.00000
N₄ = 0.30000
R = 1.36250

$$\frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_2 - N_1 \cdot N_4} \cdot R = 0.00000$$



Descriptions.

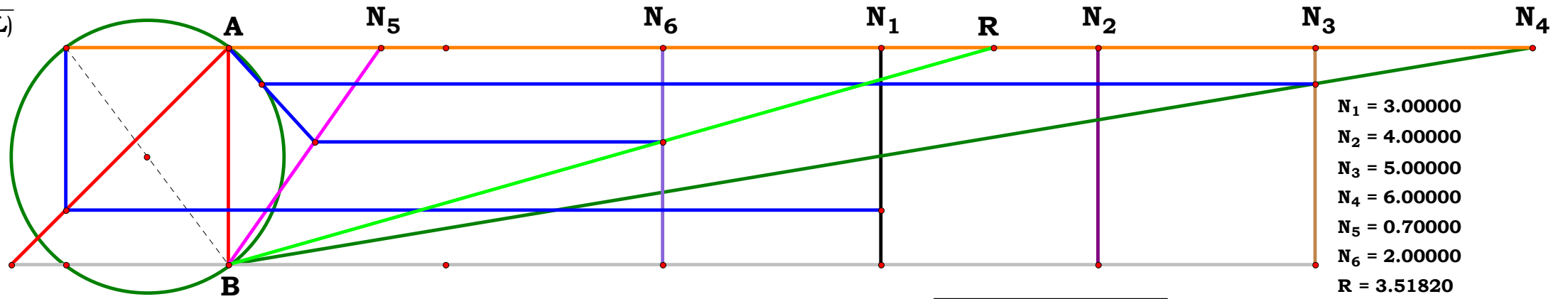
$$AC := \frac{N_1}{N_2} \quad AK := \frac{N_4 - N_3}{N_4} \quad MO := \sqrt{AB^2 + AC^2}$$

$$ML := AK + \frac{MO - AB}{2} \quad EL := \sqrt{ML \cdot (MO - ML)}$$

$$EK := EL - \frac{AC}{2} \quad BG := \frac{EK \cdot AB}{AK}$$

$$HJ := \frac{BG}{BG + N_5} \quad R := \frac{N_6}{HJ}$$

$$R = 1.588344$$



Definitions.

$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2} \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right]}{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)} = 0$$

$$R - \frac{N_6 \cdot \left[N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4) - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)} \right]}{N_1 \cdot N_4 - \sqrt{N_1^2 \cdot N_4^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} + 2 \cdot N_u \cdot A \cdot (C - D) - B \cdot C \cdot E \right]}{E \cdot F \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]} = 0 \quad N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[2 \cdot V \cdot Y \cdot k \cdot (W \cdot n - X \cdot m) + U \cdot X \cdot l \cdot m \cdot o - o \cdot \sqrt{U^2 \cdot X^2 \cdot l^2 \cdot m^2 - 4 \cdot V^2 \cdot W \cdot k^2 \cdot n \cdot (W \cdot n - X \cdot m)} \right]}{o \cdot p \cdot \left[U \cdot X \cdot l \cdot m - \sqrt{U^2 \cdot X^2 \cdot l^2 \cdot m^2 - 4 \cdot V^2 \cdot W \cdot k^2 \cdot n \cdot (W \cdot n - X \cdot m)} \right]} = 0$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.97331 \quad N_2 := 2.60288 \quad N_3 := 2.96599$$

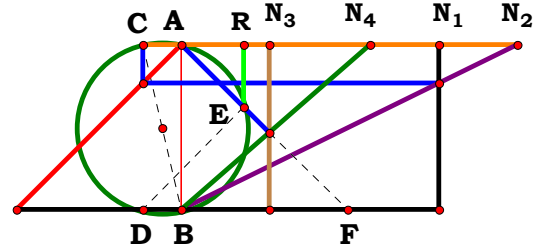
$$N_4 := 4.00969 \quad N_5 := .53272 \quad N_6 := .93952$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$\frac{N_6 \cdot (((N_1 \cdot N_4) + 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4)) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)})}{(N_1 \cdot N_4) - \sqrt{(N_1 \cdot N_4)^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4)}} - R = 0.00000$$



$N_1 = 1.55682$
 $N_2 = 2.03142$
 $N_3 = 0.53485$
 $N_4 = 1.14269$
 $R = 0.38254$

Unit. $AB := 1$ Given. $N_1 := 1.55682$ $N_2 := 2.03142$ $N_3 := .53485$ $N_4 := 1.14269$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad FN_3 := \frac{N_4 - N_3}{N_4}$$

$$AF := \sqrt{N_3^2 + FN_3^2} \quad AG := \frac{AF \cdot AB}{FN_3}$$

$$BG := \frac{N_3 \cdot AB}{FN_3} \quad DG := BG + AC$$

$$EG := \frac{N_3 \cdot DG}{AF} \quad AE := AG - EG$$

$$R := \frac{N_3 \cdot AE}{AF} \quad R = 0.38254$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (N_4 - N_3 - AC \cdot N_3 \cdot N_4)}{N_3^2 \cdot N_4^2 + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2} = 0$$

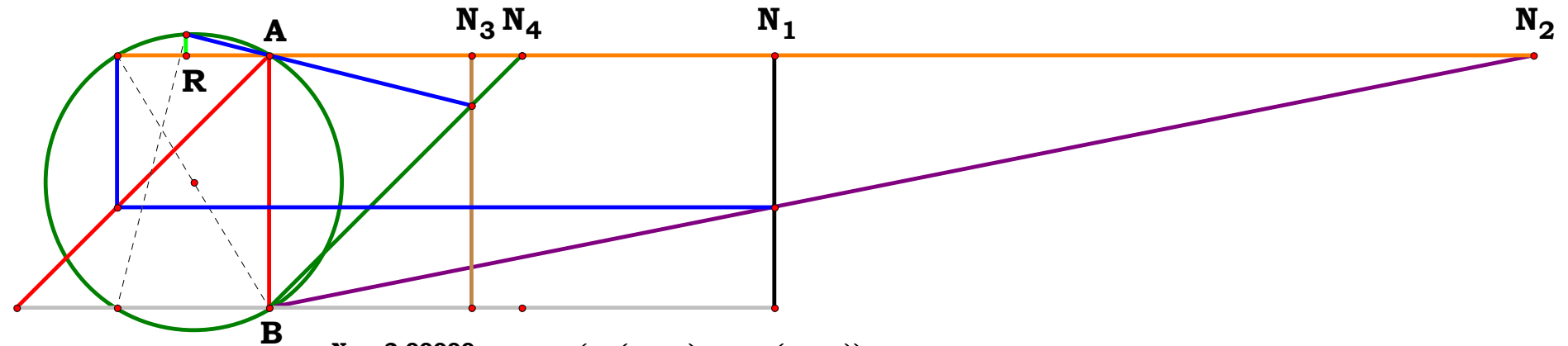
$$R - \frac{N_3 \cdot N_4 \cdot [N_2 \cdot (N_4 - N_3) + N_3 \cdot N_4 \cdot (N_1 - N_2)]}{N_2 \cdot [N_3 \cdot N_4 \cdot (N_3 \cdot N_4 - 2) + N_3^2 + N_4^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [A \cdot (C - D) - N_u \cdot (A - B)]}{A \cdot [(C - D)^2 + N_u^2]} = 0$$

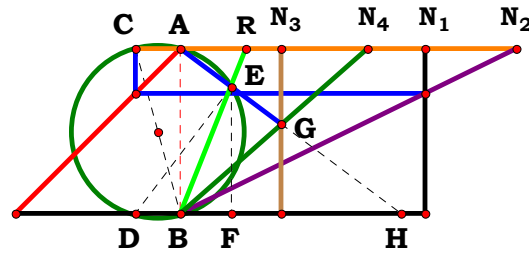
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Y \cdot Z \cdot n - X \cdot Y \cdot Z \cdot m - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)}{X \cdot m \cdot (Y^2 \cdot Z^2 + Y^2 \cdot p^2 - 2 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} = 0$$



$N_1 = 2.00000$
 $N_2 = 5.00000$
 $N_3 = 0.80000$
 $N_4 = 1.00000$
 $R = -0.32941$

$$\frac{N_3 \cdot N_4 \cdot (N_2 \cdot (N_4 - N_3) + N_3 \cdot N_4 \cdot (N_1 - N_2))}{N_2 \cdot (N_3 \cdot N_4 \cdot (N_3 \cdot N_4 - 2) + N_3^2 + N_4^2)} \cdot R = 0.00000$$



$N_1 = 1.47933$
 $N_2 = 2.03142$
 $N_3 = 0.61234$
 $N_4 = 1.13301$
 $R = 0.39760$

Unit. $AB := 1$ Given. $N_1 := 1.47933$ $N_2 := 2.03142$ $N_3 := .61234$ $N_4 := 1.13301$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad GN_3 := \frac{N_4 - N_3}{N_4}$$

$$AG := \sqrt{N_3^2 + GN_3^2} \quad BH := \frac{N_3 \cdot AB}{GN_3}$$

$$DH := BH + AC \quad EH := \frac{N_3 \cdot DH}{AG}$$

$$FH := \frac{N_3 \cdot EH}{AG} \quad BF := BH - FH$$

$$EF := \frac{AB \cdot FH}{BH} \quad R := \frac{BF \cdot AB}{EF}$$

$$R = 0.397604$$

Definitions.

$$R - \frac{N_4 - N_3 - AC \cdot N_3 \cdot N_4}{AC \cdot N_4 - AC \cdot N_3 + N_3 \cdot N_4} = 0$$

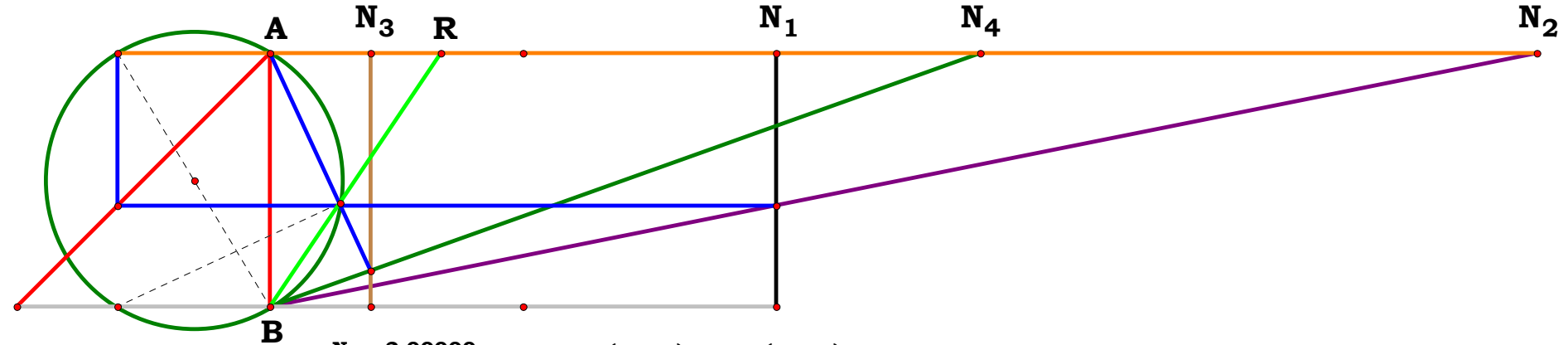
$$R - \frac{N_2 \cdot (N_4 - N_3) + N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_3 + N_4 \cdot (N_2 - N_1) + N_2 \cdot N_3 \cdot (N_4 - 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (C - D) - N_u \cdot (A - B)}{(C - D) \cdot (A - B) + A \cdot N_u} = 0$$

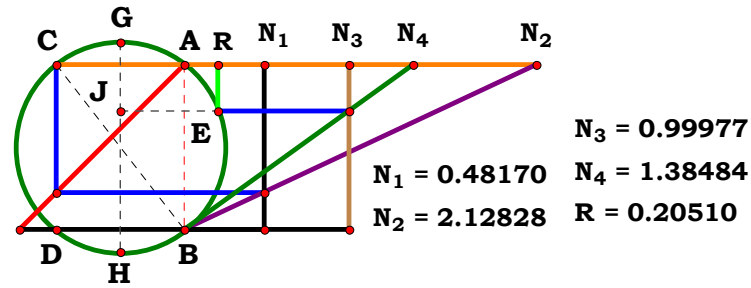
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot n - X \cdot m) - X \cdot m \cdot (Y \cdot p - Z \cdot o)}{X \cdot m \cdot (Y \cdot Z - Y \cdot p + Z \cdot o) + W \cdot n \cdot (Y \cdot p - Z \cdot o)} = 0$$



$N_1 = 2.00000$
 $N_2 = 5.00000$
 $N_3 = 0.40000$
 $N_4 = 2.80398$
 $R = 0.67513$

$$\frac{N_2 \cdot (N_4 - N_3) + N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_3 + N_4 \cdot (N_2 - N_1) + N_2 \cdot N_3 \cdot (N_4 - 1)} - R = 0.00000$$


$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{GH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{GJ} := \frac{\mathbf{N}_4 - \mathbf{N}_3}{\mathbf{N}_4} + \frac{\mathbf{GH} - \mathbf{AB}}{2} \quad \mathbf{EJ} := \sqrt{\mathbf{GJ} \cdot (\mathbf{GH} - \mathbf{GJ})}$$

$$\mathbf{R} := \mathbf{EJ} - \frac{\mathbf{AC}}{2} \quad \mathbf{R} = 0.205098$$

$$R - \frac{\sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot \sqrt{N_4^2}}{2 \cdot \sqrt{N_4^2}} = 0$$

$$R - \frac{\sqrt{N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2)}}{2 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot A^2 \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 - C \cdot (A - B)}}{2 \cdot A \cdot C} = 0$$

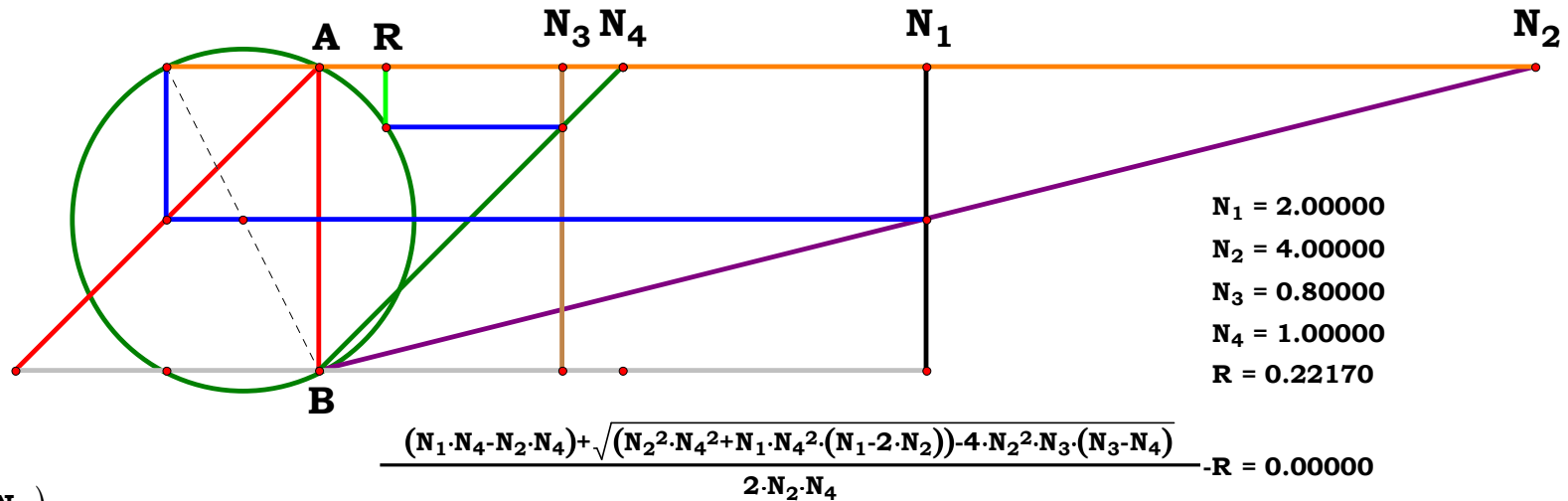
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

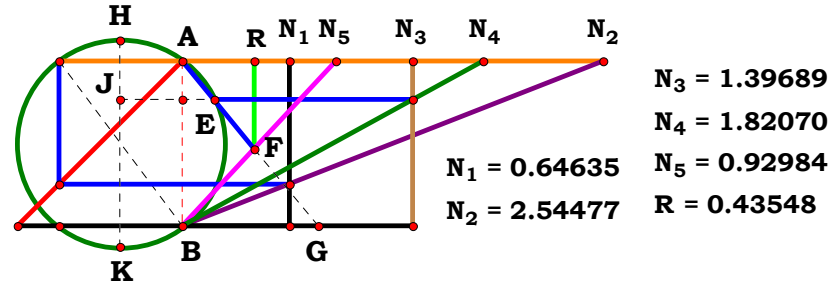
$$\mathbf{R} - \frac{\sqrt{\mathbf{X}^2 \cdot \mathbf{m}^2 \cdot (4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{p} - 4 \cdot \mathbf{Y}^2 \cdot \mathbf{p}^2 + \mathbf{Z}^2 \cdot \mathbf{o}^2)} + \mathbf{W} \cdot \mathbf{Z}^2 \cdot \mathbf{n} \cdot \mathbf{o}^2 \cdot (\mathbf{W} \cdot \mathbf{n} - 2 \cdot \mathbf{X} \cdot \mathbf{m}) + \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})}{2 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{o}} = 0$$

Unit. AB := 1 **Given.** $N_1 := .48170$ $N_2 := 2.12828$ $N_3 := .99977$ $N_4 := 1.38484$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$





Unit. $AB := 1$ Given. $N_1 := .64635$ $N_2 := 2.54477$ $N_3 := 1.39689$

$N_4 := 1.82070$ $N_5 := .92984$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad HK := \sqrt{AB^2 + AC^2}$$

$$AL := \frac{N_4 - N_3}{N_4} \quad HJ := AL + \frac{HK - AB}{2}$$

$$EJ := \sqrt{HJ \cdot (HK - HJ)} \quad BG := -\frac{AB \cdot (AC - 2 \cdot EJ)}{2 \cdot AL}$$

$$R := \frac{N_5 \cdot BG}{N_5 + BG} \quad R = 0.435482$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{\sqrt{N_4^2 \cdot \left(AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5 \right) - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

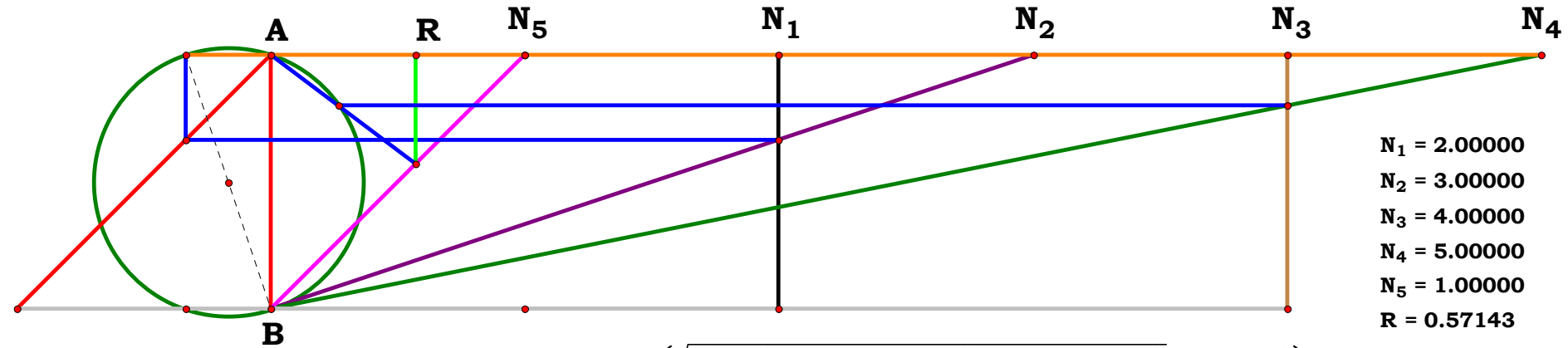
$$R - \frac{N_5 \cdot \left[\sqrt{N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2)} - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2) \right]}{\sqrt{N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2) - 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{C \cdot E \cdot (A - B) - 2 \cdot A \cdot N_u \cdot (C - D) - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)}} = 0$$

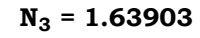
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{Y^2 \cdot n^2 \cdot (V \cdot m - W \cdot l)^2 - 4 \cdot W^2 \cdot X \cdot l^2 \cdot o \cdot (X \cdot o - Y \cdot n)} + Y \cdot n \cdot (V \cdot m - W \cdot l) \right]}{p \cdot \sqrt{Y^2 \cdot n^2 \cdot (V \cdot m - W \cdot l)^2 - 4 \cdot W^2 \cdot X \cdot l^2 \cdot o \cdot (X \cdot o - Y \cdot n)} - 2 \cdot W \cdot Z \cdot l \cdot (X \cdot o - Y \cdot n) + Y \cdot n \cdot p \cdot (V \cdot m - W \cdot l)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $N_5 = 1.00000$
 $R = 0.57143$

$$\frac{N_5 \cdot \left(\sqrt{((N_2 \cdot N_4)^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2)) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2)} \right)}{\left(\sqrt{((N_2 \cdot N_4)^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2)) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2)} \right) - 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4)} - R = 0.00000$$



$$N_1 = 0.72384 \quad N_4 = 2.72148$$

$$N_2 = 2.26388 \quad R = 0.42487$$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AC} := \frac{N_2 - N_1}{N_2} \quad \mathbf{AE} := \frac{N_4 - N_3}{N_4} \quad \mathbf{BE} := \mathbf{AB} - \mathbf{AE}$$

$$\mathbf{FH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{FG} := \mathbf{AE} + \frac{\mathbf{FH} - \mathbf{AB}}{2}$$

$$\mathbf{EG} := \sqrt{\mathbf{FG} \cdot (\mathbf{FH} - \mathbf{FG})} \qquad \mathbf{EJ} := \mathbf{EG} - \frac{\mathbf{AC}}{2}$$

$$R := \frac{EJ \cdot AB}{BE} \quad R = 0.424872$$

$$R - \frac{N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2} + 4 \cdot N_3 \cdot N_4 - AC \cdot N_4 \cdot \sqrt{N_4^2}}{2 \cdot N_3 \cdot \sqrt{N_4^2}} = 0$$

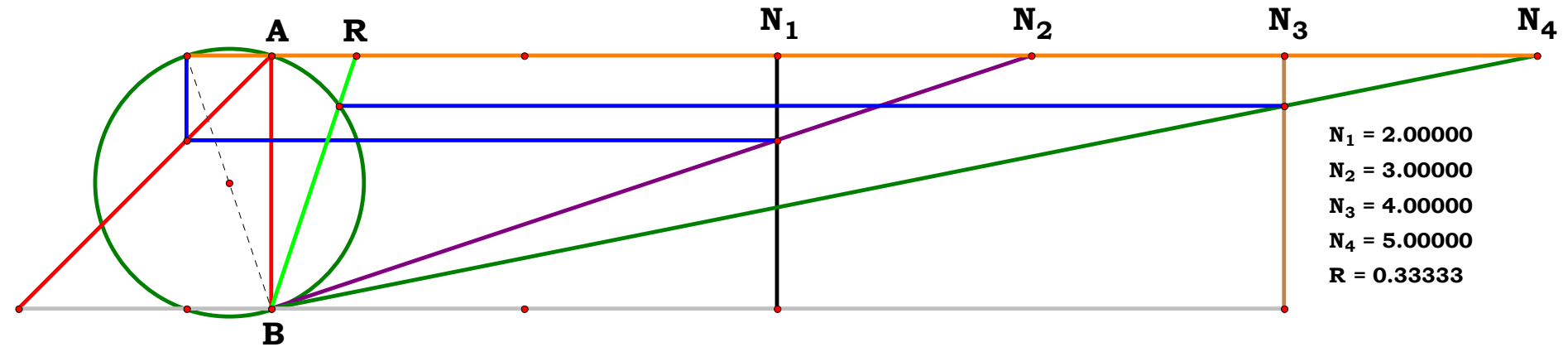
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2^2 \cdot \mathbf{N}_4^2 + \mathbf{N}_1 \cdot \mathbf{N}_4^2 \cdot (\mathbf{N}_1 - 2 \cdot \mathbf{N}_2) - 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_3 - \mathbf{N}_4) + \mathbf{N}_4 \cdot (\mathbf{N}_1 - \mathbf{N}_2)}}{2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{C^2 \cdot (A-B)^2 + 4 \cdot A^2 \cdot D \cdot (C-D)} - C \cdot (A-B)}{2 \cdot A \cdot D} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})^2 - 4 \cdot \mathbf{X}^2 \cdot \mathbf{Y} \cdot \mathbf{m}^2 \cdot \mathbf{p} \cdot (\mathbf{Y} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{o})} + \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})}{2 \cdot \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} \cdot \mathbf{p}} = 0$$



$N_1 = 2.00000$

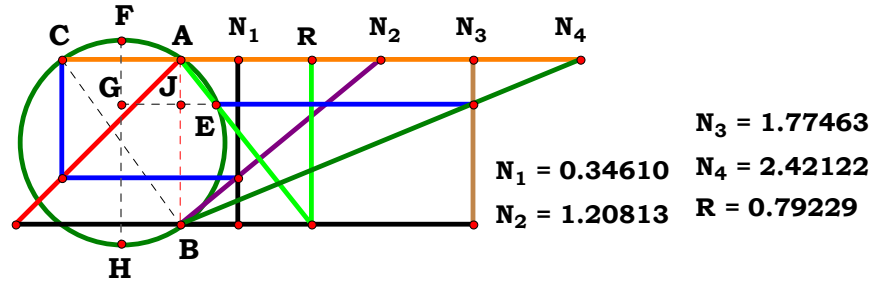
N₂ = 3.00000

$$N_3 = 4.00000$$

N₁ = 5.00000

$$R = 0.33333$$

$$\frac{(\sqrt{(N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2))}) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_1 \cdot N_4) \cdot N_2 \cdot N_4}{2 \cdot N_2 \cdot N_3} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .34610$ $N_2 := 1.20813$ $N_3 := 1.77463$ $N_4 := 2.42122$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad AJ := \frac{N_4 - N_3}{N_4} \quad FH := \sqrt{AB^2 + AC^2}$$

$$FG := AJ + \frac{FH - AB}{2} \quad EG := \sqrt{FG \cdot (FH - FG)}$$

$$EJ := EG - \frac{AC}{2} \quad R := \frac{EJ \cdot AB}{AJ} \quad R = 0.792287$$

Definitions.

$$R - \frac{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)}{2 \cdot (N_3 - N_4) \cdot \sqrt{N_4^2}} = 0$$

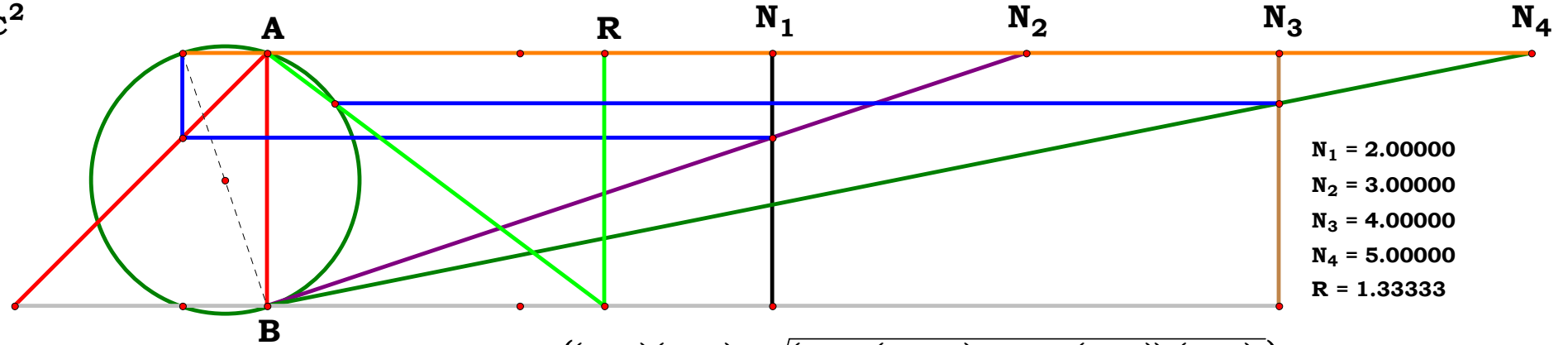
$$R - \frac{N_4 \cdot \left[N_2 \cdot N_4 \cdot (N_2 - N_1) - N_2 \cdot \sqrt{N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + (N_2 \cdot N_4)^2} \right]}{2 \cdot N_2 \cdot (N_2 \cdot N_4) \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

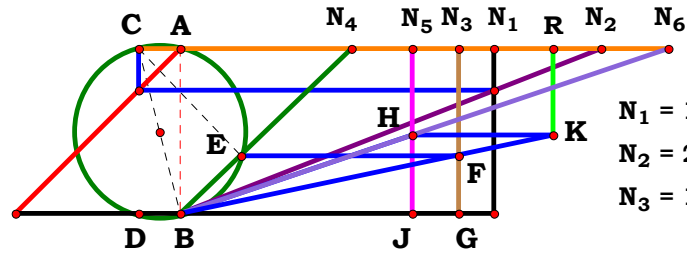
$$R - \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D) - C \cdot (A - B)}}{2 \cdot A \cdot (C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W \cdot Z^2 \cdot n \cdot o^2 \cdot (W \cdot n - 2 \cdot X \cdot m) + 4 \cdot X^2 \cdot Y \cdot m^2 \cdot p \cdot (Z \cdot o - Y \cdot p) + X^2 \cdot Z^2 \cdot m^2 \cdot o^2 + Z \cdot o \cdot (W \cdot n - X \cdot m)}}{2 \cdot X \cdot m \cdot (Z \cdot o - Y \cdot p)} = 0$$



$$\frac{N_4 \cdot ((N_2 \cdot N_4) \cdot (N_2 - N_1) - N_2 \cdot \sqrt{(N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + (N_2 \cdot N_4)^2)}}{2 \cdot N_2 \cdot (N_2 \cdot N_4) \cdot (N_3 - N_4)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 1.89582 & N_4 &= 1.03615 \\ N_2 &= 2.54477 & N_5 &= 1.40444 \\ N_3 &= 1.68746 & N_6 &= 2.95416 \\ R &= 2.26093 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 1.89582 & N_2 &:= 2.54477 & N_3 &:= 1.68746 \\ N_4 &:= 1.03615 & N_5 &:= 1.40444 & N_6 &:= 2.95416 \end{aligned}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$AC := \frac{N_2 - N_1}{N_2} \quad HN_5 := \frac{N_6 - N_5}{N_6} \quad HJ := AB - HN_5$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad CN_4 := N_4 + AC \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad FG := \frac{AB \cdot BE}{BN_4}$$

$$R := \frac{N_3 \cdot HJ}{FG} \quad R = 2.260935$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 - AC \cdot N_4 \cdot N_6} = 0$$

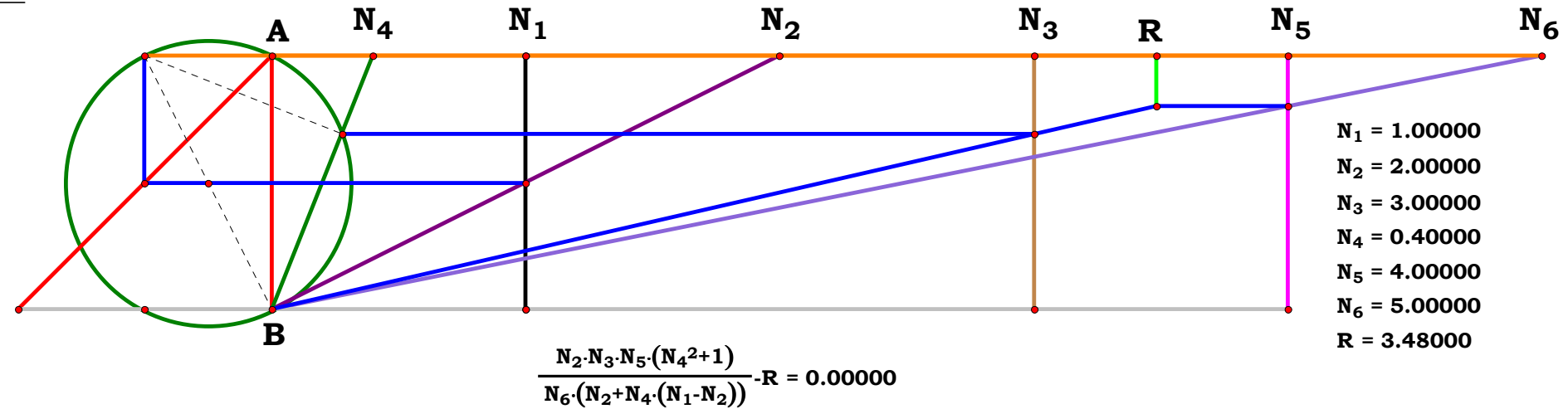
$$R - \frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 \cdot [N_2 + N_4 \cdot (N_1 - N_2)]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot E \cdot [A \cdot D - N_u \cdot (A - B)]} = 0$$

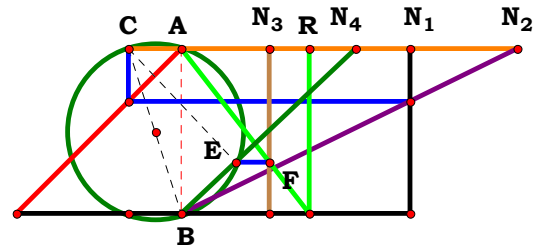
$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot W \cdot Y \cdot k \cdot p \cdot (X^2 + n^2)}{V \cdot Z \cdot k \cdot m \cdot n^2 \cdot o + X \cdot Z \cdot m \cdot n \cdot o \cdot (U \cdot l - V \cdot k)} = 0$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 2.00000 \\ N_3 &= 3.00000 \\ N_4 &= 0.40000 \\ N_5 &= 4.00000 \\ N_6 &= 5.00000 \\ R &= 3.48000 \end{aligned}$$

$$\frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_6 \cdot (N_2 + N_4 \cdot (N_1 - N_2))} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.53485$
 $N_4 = 1.05552$
 $R = 0.77912$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .53485$ $N_4 := 1.05552$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$FN_3 := \frac{AB \cdot EN_4}{BN_4} \quad R := \frac{N_3 \cdot AB}{FN_3} \quad R = 0.779113$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (AC + N_4)} = 0$$

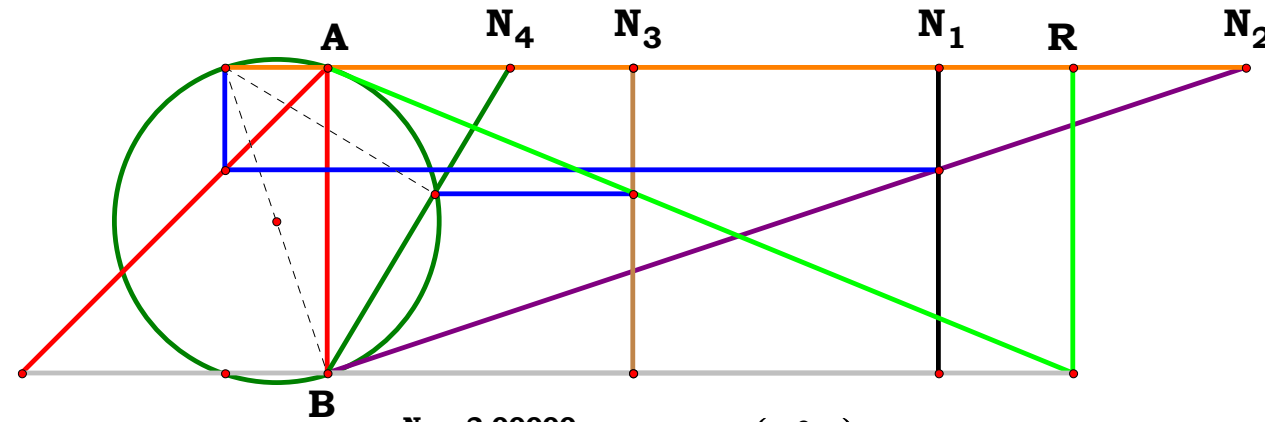
$$R - \frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot (N_2 - N_1 + N_2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (D^2 + N_u^2)}{C \cdot [D \cdot (A - B) + A \cdot N_u]} = 0$$

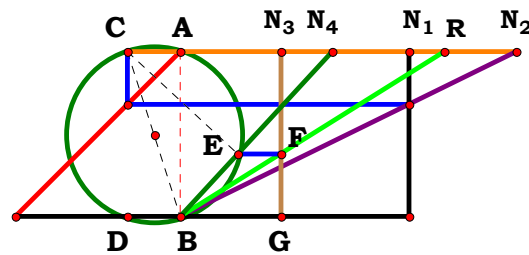
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot (Z^2 + p^2)}{X \cdot Z^2 \cdot m \cdot o - Z \cdot o \cdot p \cdot (W \cdot n - X \cdot m)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.59870$
 $R = 2.43445$

$$\frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_4 \cdot ((N_2 - N_1) + N_2 \cdot N_4)} \cdot R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.61234$
 $N_4 = 0.91992$
 $R = 1.60104$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .61234$ $N_4 := .91992$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad R := \frac{N_3 \cdot BN_4}{BE}$$

$R = 1.601038$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1)}{1 - AC \cdot N_4} = 0$$

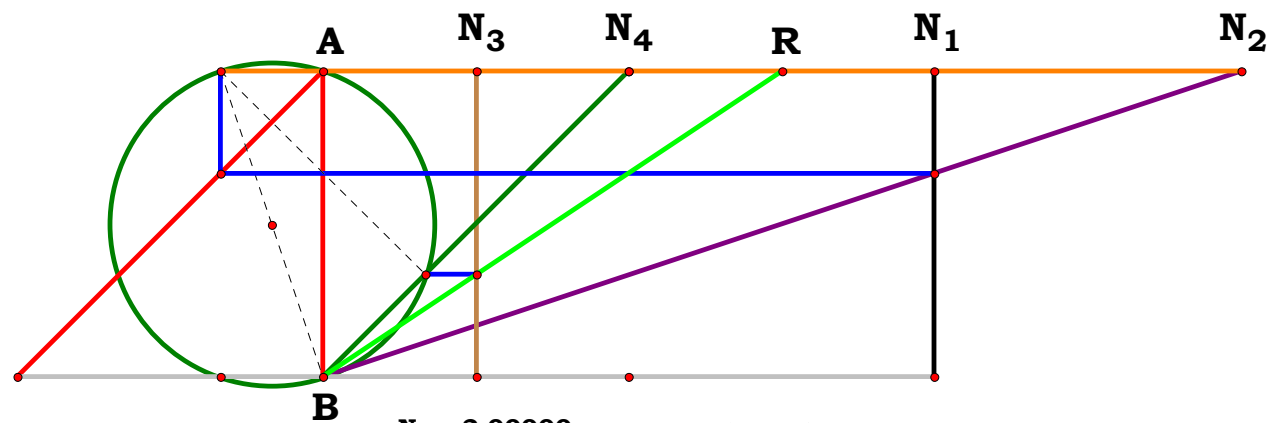
$$R - \frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_2 + N_4 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot [A \cdot D - N_u \cdot (A - B)]} = 0$$

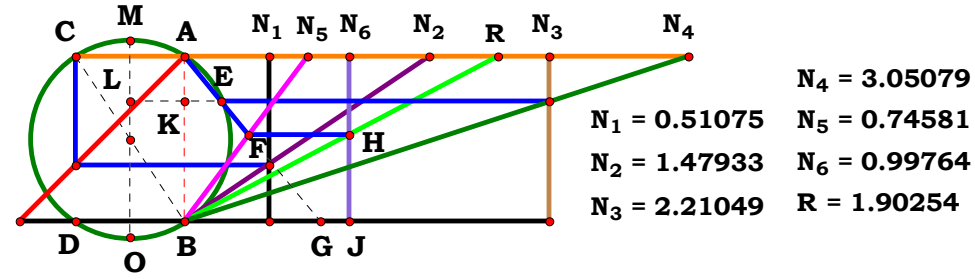
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot (Z^2 + p^2)}{o \cdot p \cdot (W \cdot Z \cdot n - X \cdot Z \cdot m + X \cdot m \cdot p)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.50000$
 $N_4 = 1.00000$
 $R = 1.50000$

$$\frac{N_2 \cdot N_3 \cdot (N_4^2 + 1)}{N_2 + N_4 \cdot (N_1 - N_2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .51075$ $N_2 := 1.47933$ $N_3 := 2.21049$
 $N_4 := 3.05079$ $N_5 := .74581$ $N_6 := .99764$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$AC := \frac{N_2 - N_1}{N_2}$ $AK := \frac{N_4 - N_3}{N_4}$

$MO := \sqrt{AB^2 + AC^2}$ $ML := AK + \frac{MO - AB}{2}$

$EL := \sqrt{ML \cdot (MO - ML)}$ $EK := EL - \frac{AC}{2}$

$BG := \frac{EK \cdot AB}{AK}$ $HJ := \frac{BG}{BG + N_5}$

$R := \frac{N_6}{HJ}$ $R = 1.902555$

Definitions.

$$R - \frac{N_6 \cdot \left[\sqrt{N_4^2 \cdot (AC \cdot N_4 + 2 \cdot N_3 \cdot N_5 - 2 \cdot N_4 \cdot N_5)} - N_4 \cdot \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right]}{N_4 \cdot \left(AC \cdot \sqrt{N_4^2} - \sqrt{AC^2 \cdot N_4^2 - 4 \cdot N_3^2 + 4 \cdot N_3 \cdot N_4} \right)} = 0$$

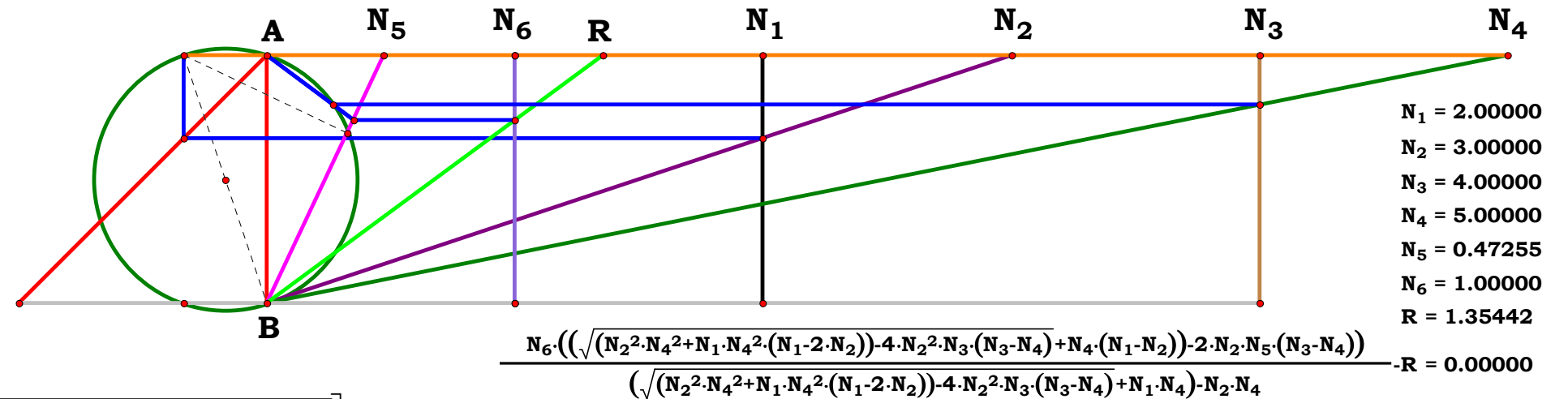
$$R - \frac{N_6 \cdot \left[\sqrt{N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2)} - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_4 \cdot (N_1 - N_2) - 2 \cdot N_2 \cdot N_5 \cdot (N_3 - N_4) \right]}{\sqrt{N_2^2 \cdot N_4^2 + N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2)} - 4 \cdot N_2^2 \cdot N_3 \cdot (N_3 - N_4) + N_1 \cdot N_4 - N_2 \cdot N_4} = 0$$

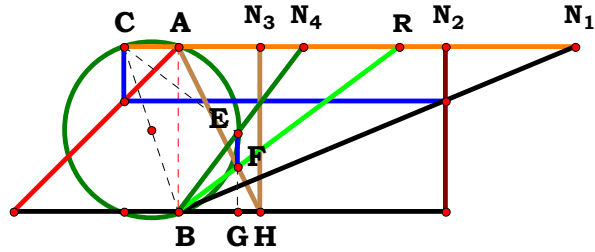
$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$ $N_6 - \frac{N_u}{F} = 0$

$$R - \frac{N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E - 2 \cdot A \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]} = 0$$

$N_1 - \frac{U}{k} = 0$ $N_2 - \frac{V}{l} = 0$ $N_3 - \frac{W}{m} = 0$ $N_4 - \frac{X}{n} = 0$ $N_5 - \frac{Y}{o} = 0$ $N_6 - \frac{Z}{p} = 0$

$$R - \frac{Z \cdot \left[o \cdot \sqrt{4 \cdot V^2 \cdot W \cdot k^2 \cdot n \cdot (X \cdot m - W \cdot n) + X^2 \cdot m^2 \cdot (U \cdot l - V \cdot k)^2} - 2 \cdot V \cdot Y \cdot k \cdot (W \cdot n - X \cdot m) + X \cdot m \cdot o \cdot (U \cdot l - V \cdot k) \right]}{o \cdot p \cdot \left[\sqrt{4 \cdot V^2 \cdot W \cdot k^2 \cdot n \cdot (X \cdot m - W \cdot n) + X^2 \cdot m^2 \cdot (U \cdot l - V \cdot k)^2} + X \cdot m \cdot (U \cdot l - V \cdot k) \right]} = 0$$





$N_1 = 2.39948$
 $N_2 = 1.61493$
 $N_3 = 0.49611$
 $N_4 = 0.75526$
 $R = 1.34142$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.61493$ $N_3 := 0.49611$ $N_4 := .75526$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BE := BN_4 - EN_4$$

$$BG := \frac{N_4 \cdot BE}{BN_4} \quad FG := \frac{AB \cdot (N_3 - BG)}{N_3}$$

$$R := \frac{BG \cdot AB}{FG} \quad R = 1.341417$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC \cdot N_4 - 1)}{N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2} = 0$$

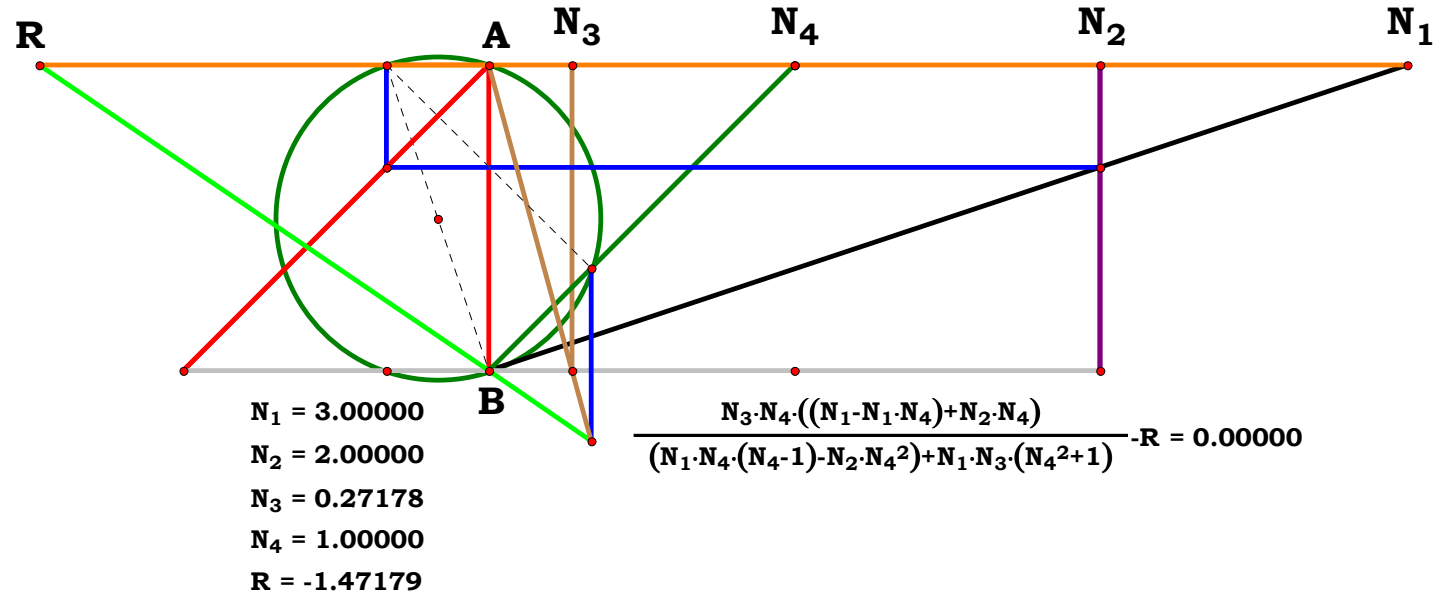
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 - N_1 \cdot N_4 + N_2 \cdot N_4)}{N_1 \cdot N_4 \cdot (N_4 - 1) - N_2 \cdot N_4^2 + N_1 \cdot N_3 \cdot (N_4^2 + 1)} = 0$$

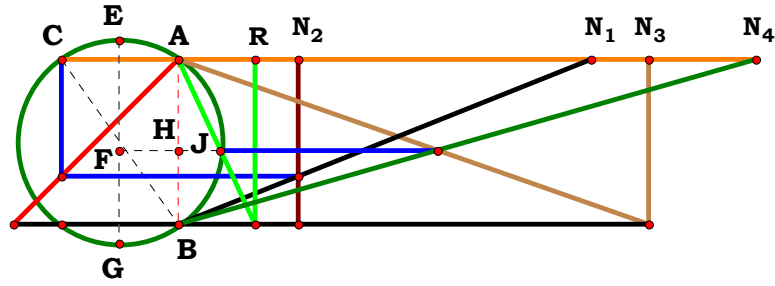
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot Z \cdot m - W \cdot Z \cdot n + W \cdot n \cdot p)}{Y \cdot W \cdot n \cdot (Z^2 + p^2) + [W \cdot Z \cdot n \cdot o \cdot (Z - p) - X \cdot Z^2 \cdot m \cdot o]} = 0$$





$N_1 = 2.49634$
 $N_2 = 0.72384$
 $N_3 = 2.84976$
 $N_4 = 3.49634$
 $R = 0.46480$

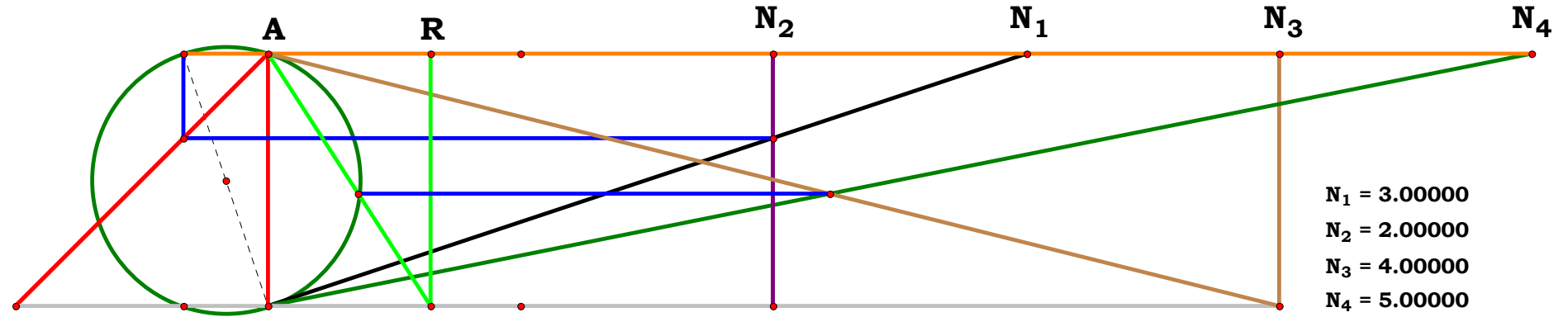
Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := .72384$ $N_3 := 2.84976$
 $N_4 := 3.49634$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$
 $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AH := \frac{AB \cdot N_4}{N_4 + N_3} \quad EG := \sqrt{AB^2 + AC^2}$$

$$EF := AH + \frac{(EG - AB)}{2} \quad FJ := \sqrt{EF \cdot (EG - EF)}$$

$$HJ := FJ - \frac{AC}{2} \quad R := \frac{HJ \cdot AB}{AH} \quad R = 0.464804$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 0.64340$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

$$R - \frac{\sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2)} - (N_3 + N_4) \cdot (N_1 - N_2)}{2 \cdot N_1 \cdot N_4} = 0$$

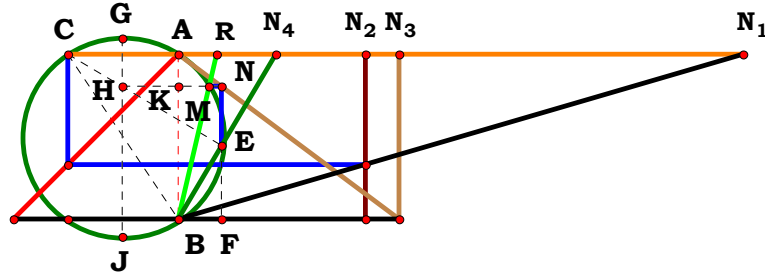
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{2 \cdot B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot (Y^2 \cdot p^2 + 6 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2)} + X \cdot m \cdot (Y \cdot p + Z \cdot o)^2 \cdot (X \cdot m - 2 \cdot W \cdot n) - (Y \cdot p + Z \cdot o) \cdot (W \cdot n - X \cdot m)}{2 \cdot W \cdot Z \cdot n \cdot o} = 0$$

$$\frac{(\sqrt{N_3^2 \cdot (N_1 - N_2)^2 + N_4^2 \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2) + N_2^2)} - N_1 \cdot N_3 - N_1 \cdot N_4) + N_2 \cdot N_3 + N_2 \cdot N_4}{2 \cdot N_1 \cdot N_4} - R = 0.00000$$



$$\begin{aligned} N_1 &= 3.41649 \\ N_2 &= 1.13064 \\ N_3 &= 1.33877 \\ N_4 &= 0.59060 \\ R &= 0.23145 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.41649 \quad N_2 := 1.13064 \quad N_3 := 1.33877 \quad N_4 := .59060$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BF := \frac{N_4 \cdot (BN_4 - EN_4)}{BN_4} \quad AK := \frac{AB \cdot BF}{N_3}$$

$$GJ := \sqrt{AB^2 + AC^2} \quad GH := AK + \frac{GJ - AB}{2}$$

$$HM := \sqrt{GH \cdot (GJ - GH)} \quad KM := HM - \frac{AC}{2}$$

$$R := \frac{KM \cdot AB}{AB - AK} \quad R = 0.23145$$

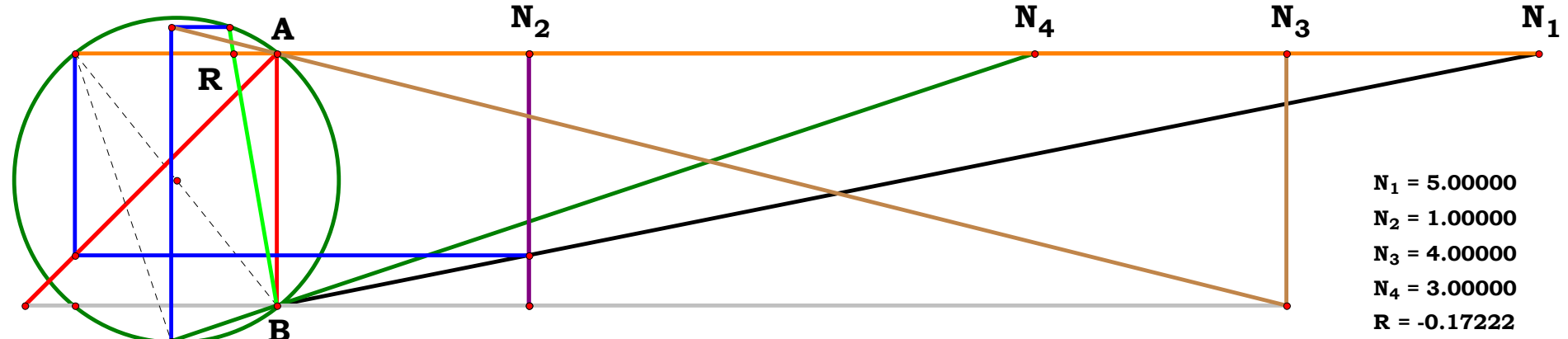
Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1) \cdot \left[AC \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} - \sqrt{AC \cdot N_3 \cdot N_4^2 \cdot (2 \cdot AC \cdot N_3 - 4 \cdot N_4^2 + AC \cdot N_3 \cdot N_4^2 - 4) + AC^2 \cdot N_3^2 - 4 \cdot AC \cdot N_4^3 \cdot (AC \cdot N_4 - 2) + 4 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) - 4 \cdot N_4^2} \right]}{2 \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} \cdot (N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2)} = 0$$

$$R - \frac{\sqrt{4 \cdot N_4 \cdot (N_1 - N_1 \cdot N_4 + N_2 \cdot N_4) \cdot [(N_1 - N_2 + N_1 \cdot N_3) \cdot N_4^2 - N_1 \cdot N_4 + N_1 \cdot N_3] + N_3^2 \cdot (N_4^2 + 1)^2 \cdot (N_1 - N_2)^2 - N_3 \cdot (N_4^2 + 1) \cdot (N_1 - N_2)}}{2 \cdot (N_1 \cdot N_4^2 - N_2 \cdot N_4^2 + N_1 \cdot N_3 - N_1 \cdot N_4 + N_1 \cdot N_3 \cdot N_4^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(D^2 + N_u^2) \cdot (B - A) - \sqrt{(D^2 + N_u^2)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot [B \cdot D + N_u \cdot (A - B)]^2 + 4 \cdot B \cdot C \cdot (D^2 + N_u^2) \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)}}{2 \cdot (B \cdot C \cdot D - B \cdot N_u^2 - B \cdot D^2 + A \cdot C \cdot N_u - B \cdot C \cdot N_u)} = 0$$



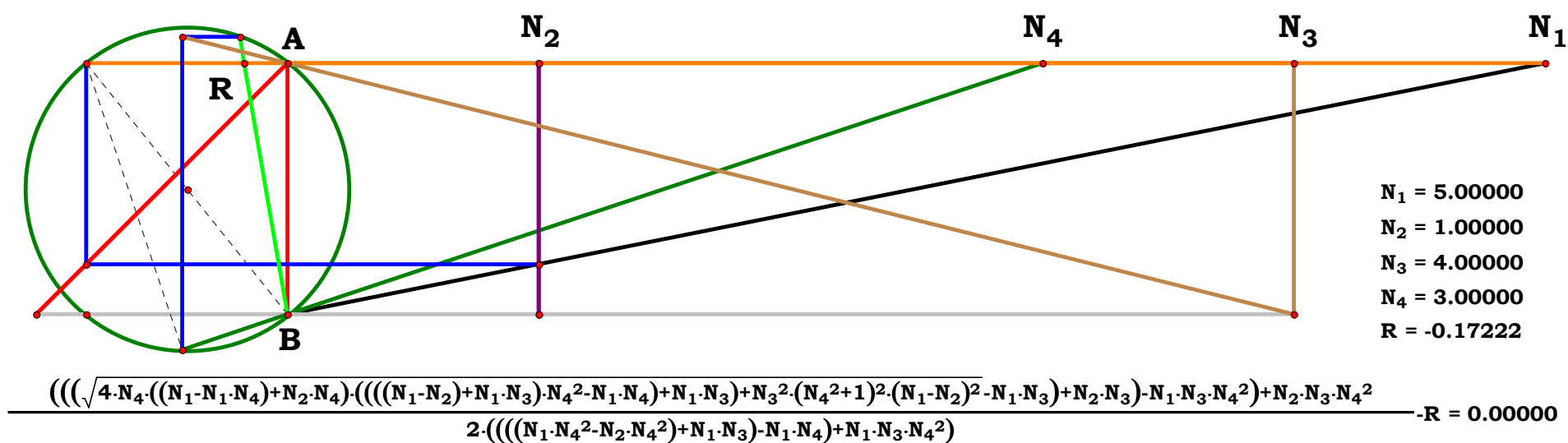
$$\begin{aligned} N_1 &= 5.00000 \\ N_2 &= 1.00000 \\ N_3 &= 4.00000 \\ N_4 &= 3.00000 \\ R &= -0.17222 \end{aligned}$$

$$\frac{(((\sqrt{4 \cdot N_4 \cdot ((N_1 - N_1 \cdot N_4) + N_2 \cdot N_4) \cdot (((N_1 - N_2) + N_1 \cdot N_3) \cdot N_4^2 - N_1 \cdot N_4 + N_1 \cdot N_3) + N_3^2 \cdot (N_4^2 + 1)^2 \cdot (N_1 - N_2)^2 - N_1 \cdot N_3) + N_2 \cdot N_3) - N_1 \cdot N_3 \cdot N_4^2) + N_2 \cdot N_3 \cdot N_4^2}}{2 \cdot (((N_1 \cdot N_4^2 - N_2 \cdot N_4^2) + N_1 \cdot N_3) - N_1 \cdot N_4 + N_1 \cdot N_3 \cdot N_4^2)} - R = 0.00000$$



$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y}^2 \cdot (\mathbf{Z}^2 + \mathbf{p}^2)^2 \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} - \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} + \mathbf{W} \cdot \mathbf{n} \cdot \mathbf{p}) \cdot [\mathbf{Z}^2 \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o}) + \mathbf{W} \cdot \mathbf{n} \cdot \mathbf{p} \cdot (\mathbf{Y} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{o})]} - \mathbf{Y} \cdot (\mathbf{Z}^2 + \mathbf{p}^2) \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m})}{2 \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{n} + \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} \cdot \mathbf{p}^2 + \mathbf{W} \cdot \mathbf{Z}^2 \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{m} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o} \cdot \mathbf{p})} = 0$$





Unit.

AB := 1

Given.

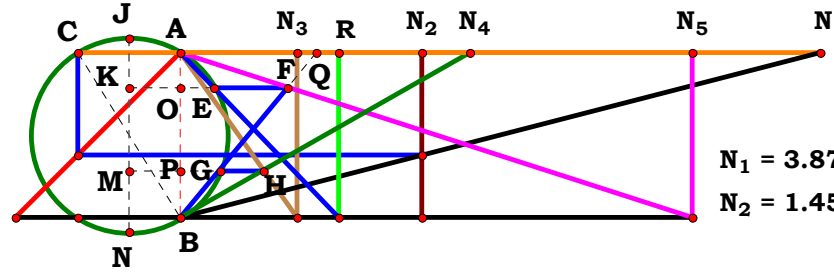
N₁ := 3.87172

N₂ := 1.45996

N₃ := .70920

N₄ := 1.75290

N₅ := 3.09945



N₃ = 0.70920

N₄ = 1.75290

N₅ = 3.09945

R = 0.95741

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4} \quad JN := \sqrt{AB^2 + AC^2}$$

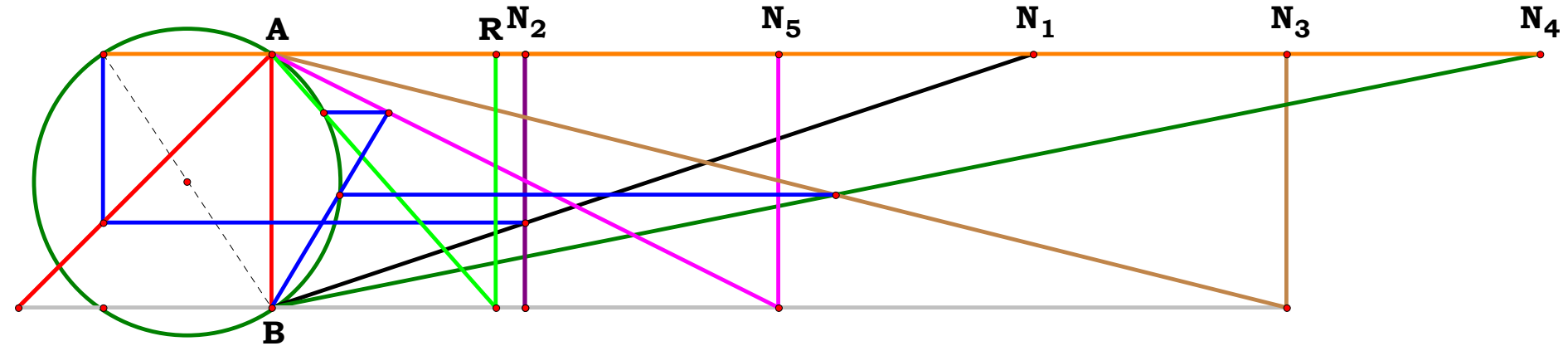
$$JM := JN - \left(BP + \frac{JN - AB}{2} \right) \quad GM := \sqrt{JM \cdot (JN - JM)}$$

$$PG := GM - \frac{AC}{2} \quad AQ := \frac{PG \cdot AB}{BP} \quad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2} \quad EK := \sqrt{JK \cdot (JN - JK)}$$

$$EO := EK - \frac{AC}{2} \quad R := \frac{EO \cdot AB}{AO}$$

R = 0.957407



N₁ = 3.00000

N₂ = 1.00000

N₃ = 4.00000

N₄ = 5.00000

N₅ = 2.00000

R = 0.88542

AB = 1.00000

AC = 0.66667

BP = 0.44444

JN = 1.20185

JM = 0.65648

GM = 0.59835

PG = 0.26502

AQ = 0.59629

AO = 0.22967

JK = 0.33060

EK = 0.53669

EO = 0.20335

$$R \cdot \frac{EO \cdot AB}{AO} = 0.00000$$

$$AC - \frac{N_1 - N_2}{N_1} = 0 \quad BP - \frac{N_3}{N_3 + N_4} = 0 \quad JN - \frac{\sqrt{2 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2}}{N_1} = 0 \quad JM - \frac{\sqrt{2 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2} \cdot (N_3 + N_4) - N_1 \cdot (N_3 - N_4)}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

$$GM - \frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) - N_2 \cdot (N_3 + N_4)^2 \cdot (2 \cdot N_1 - N_2)}}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0 \quad PG - \frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) - N_2 \cdot (N_3 + N_4)^2 \cdot (2 \cdot N_1 - N_2)} - (N_3 + N_4) \cdot (N_1 - N_2)}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

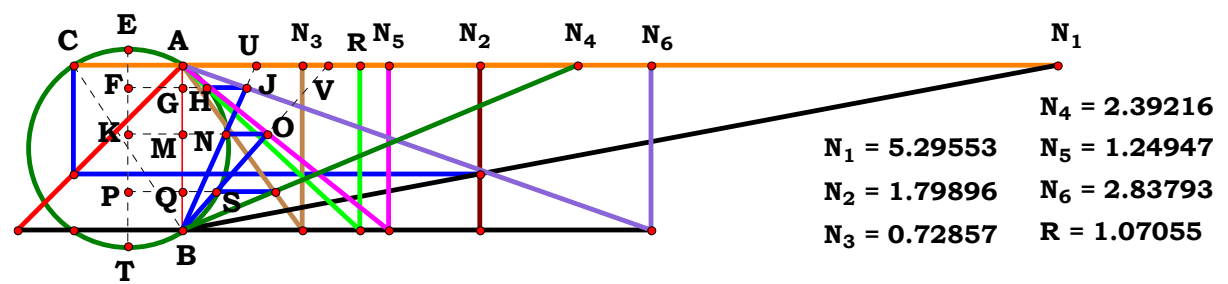
$$AQ - \left[\frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_2 \cdot (N_3 + N_4)^2 \cdot (N_2 - 2 \cdot N_1)} - (N_3 + N_4) \cdot (N_1 - N_2)}{2 \cdot N_1 \cdot N_3} \right] = 0$$

$$AO - \frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_2 \cdot (N_3 + N_4)^2 \cdot (N_2 - 2 \cdot N_1)} - (N_3 + N_4) \cdot (N_1 - N_2)}{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_2 \cdot (N_3 + N_4)^2 \cdot (N_2 - 2 \cdot N_1)} - (N_3 + N_4) \cdot (N_1 - N_2) + 2 \cdot N_1 \cdot N_3 \cdot N_5} = 0$$

Etc.



Unit.
AB := 1
Given.
N₁ := 5.29553 **N₃** := .72857
N₂ := 1.79896 **N₄** := 2.39216
 N₅ := 1.24947
 N₆ := 2.83793



Descriptions.

$AC := \frac{N_1 - N_2}{N_1}$ $BQ := \frac{AB \cdot N_3}{N_3 + N_4}$
 $ET := \sqrt{AB^2 + AC^2}$ $EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$

$PS := \sqrt{EP \cdot (ET - EP)}$ $QS := PS - \frac{AC}{2}$

$AV := \frac{QS \cdot AB}{BQ}$ $BM := \frac{AB \cdot N_5}{AV + N_5}$

$KT := BM + \frac{ET - AB}{2}$

$KN := \sqrt{KT \cdot (ET - KT)}$

$MN := KN - \frac{AC}{2}$

$AU := \frac{MN \cdot AB}{BM}$

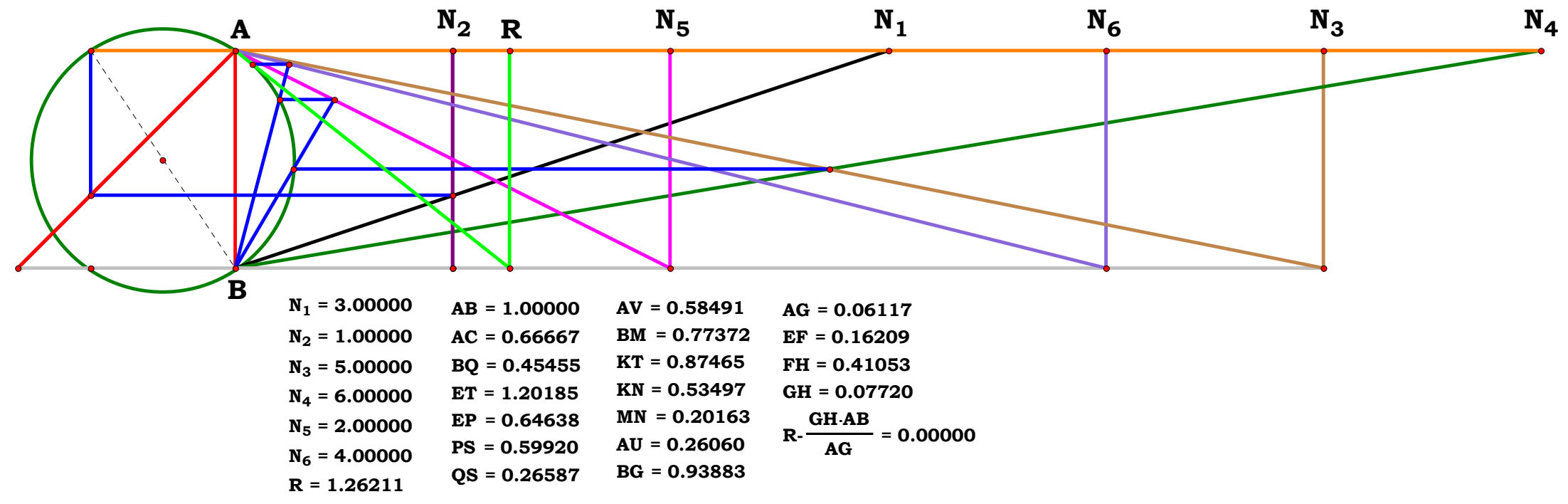
$BG := \frac{AB \cdot N_6}{AU + N_6}$ $AG := AB - BG$

$EF := AG + \frac{ET - AB}{2}$ $FH := \sqrt{EF \cdot (ET - EF)}$

$GH := FH - \frac{AC}{2}$ $R := \frac{GH \cdot AB}{AG}$

R = 1.070553

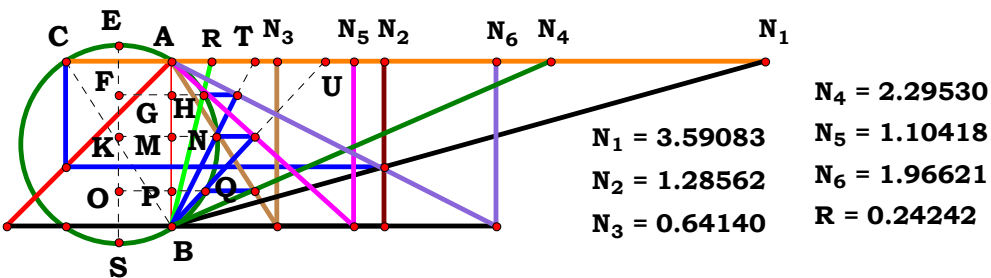
Definitions.





Unit.
AB := 1
Given.
N₁ := 3.59083
N₂ := 1.28562
N₃ := .64140
N₄ := 2.29530
N₅ := 1.10418
N₆ := 1.96621

4RST3AB1R5



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$
$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$
$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

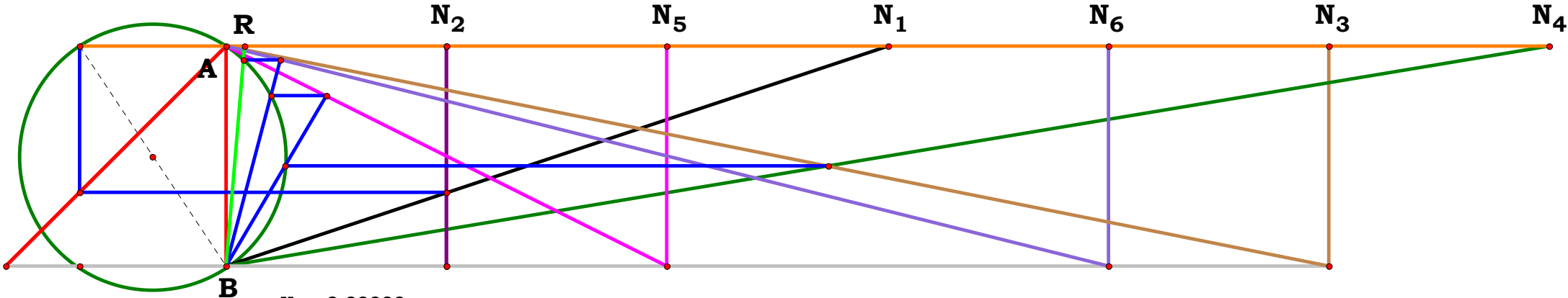
$$MN := KN - \frac{AC}{2} \quad AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.242424$$

Definitions.



N ₁ = 3.00000	AB = 1.00000	AU = 0.58491	FS = 1.03976
N ₂ = 1.00000	AC = 0.66667	BM = 0.77372	FH = 0.41053
N ₃ = 5.00000	BP = 0.45455	KS = 0.87465	GH = 0.07720
N ₄ = 6.00000	ES = 1.20185	KN = 0.53497	R- $\frac{GH \cdot AB}{BG}$ = 0.00000
N ₅ = 2.00000	OS = 0.55547	MN = 0.20163	
N ₆ = 4.00000	OQ = 0.59920	AT = 0.26060	
R = 0.08223	PQ = 0.26587	BG = 0.93883	



Unit.

$AB := 1$

Given.

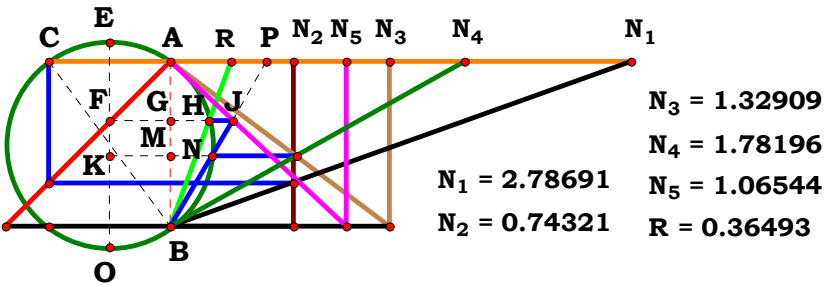
$N_1 := 2.78691$

$N_2 := .74321$

$N_3 := 1.32909$

$N_4 := 1.78196$

$N_5 := 1.06544$



$N_3 = 1.32909$

$N_4 = 1.78196$

$N_5 = 1.06544$

$N_1 = 2.78691$

$N_2 = 0.74321$

$R = 0.36493$

Descriptions.

$AC := \frac{N_1 - N_2}{N_1} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$

$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$

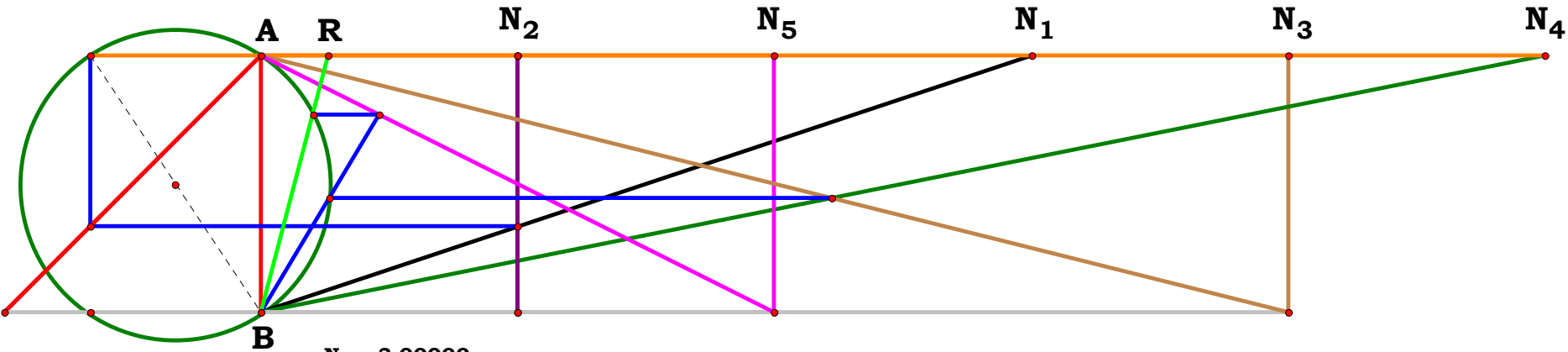
$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$

$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$

$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$

$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{BG}$

$R = 0.364931$



$N_1 = 3.00000$

$N_2 = 1.00000$

$N_3 = 4.00000$

$N_4 = 5.00000$

$N_5 = 2.00000$

$R = 0.26398$

$AB = 1.00000$

$AC = 0.66667$

$BM = 0.44444$

$EO = 1.20185$

$KO = 0.54537$

$KN = 0.59835$

$MN = 0.26502$

$AP = 0.59629$

$BG = 0.77033$

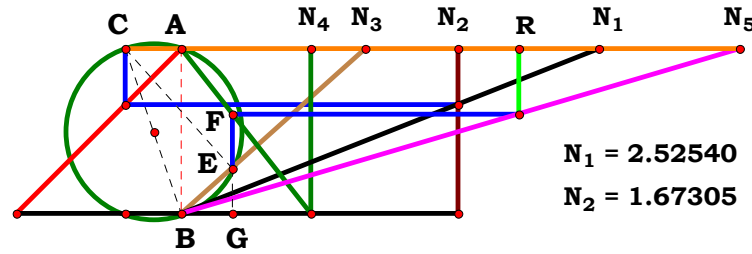
$FO = 0.87125$

$FH = 0.53669$

$GH = 0.20335$

$R - \frac{GH \cdot AB}{BG} = 0.00000$

Definitions.



$$\begin{aligned} N_3 &= 1.11600 \\ N_4 &= 0.78432 \\ N_5 &= 3.38034 \\ N_1 &= 2.52540 \\ N_2 &= 1.67305 \\ R &= 2.04513 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 2.52540 & N_2 &:= 1.67305 & N_3 &:= 1.11600 \\ & & & & N_4 &:= .78432 & N_5 &:= 3.38034 \end{aligned}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_3 := N_3 + AC \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3}$$

$$FG := \frac{AB \cdot (N_4 - BG)}{N_4} \quad R := \frac{N_5 \cdot FG}{AB} \quad R = 2.045128$$

Definitions.

$$R - \frac{N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + AC \cdot N_3^2)}{N_4 \cdot (N_3^2 + 1)} = 0$$

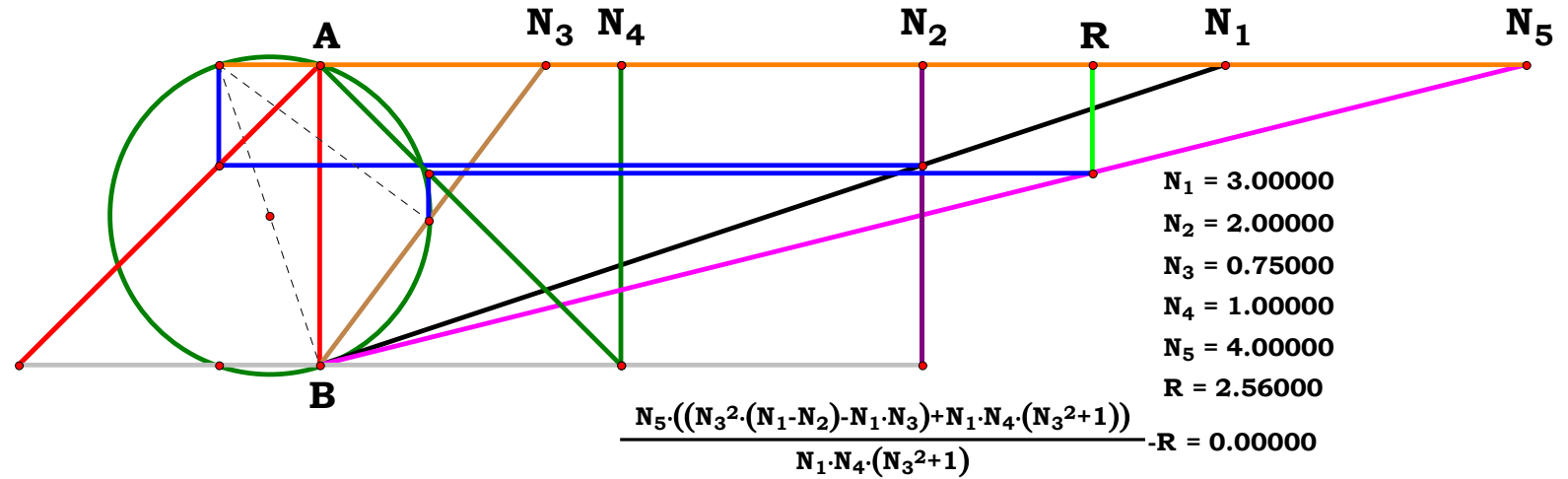
$$R - \frac{N_5 \cdot [N_3^2 \cdot (N_1 - N_2) - N_1 \cdot N_3 + N_1 \cdot N_4 \cdot (N_3^2 + 1)]}{N_1 \cdot N_4 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u^3 + N_u^2 \cdot D \cdot (B - A) + N_u \cdot B \cdot C \cdot (C - D)}{B \cdot E \cdot (C^2 + N_u^2)} = 0$$

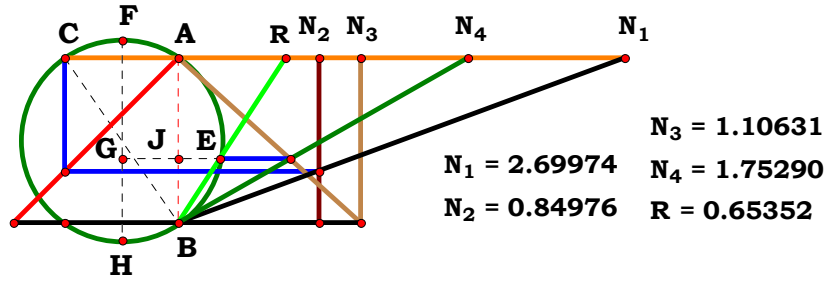
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [Y \cdot V \cdot m \cdot (X^2 + n^2) + X^2 \cdot o \cdot (V \cdot m - W \cdot l) - V \cdot X \cdot m \cdot n \cdot o]}{V \cdot Y \cdot m \cdot p \cdot (X^2 + n^2)} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.75000 \\ N_4 &= 1.00000 \\ N_5 &= 4.00000 \\ R &= 2.56000 \end{aligned}$$

$$\frac{N_5 \cdot ((N_3^2 \cdot (N_1 - N_2) - N_1 \cdot N_3) + N_1 \cdot N_4 \cdot (N_3^2 + 1))}{N_1 \cdot N_4 \cdot (N_3^2 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.69974$ $N_2 := .84979$ $N_3 := 1.10631$ $N_4 := 1.75290$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

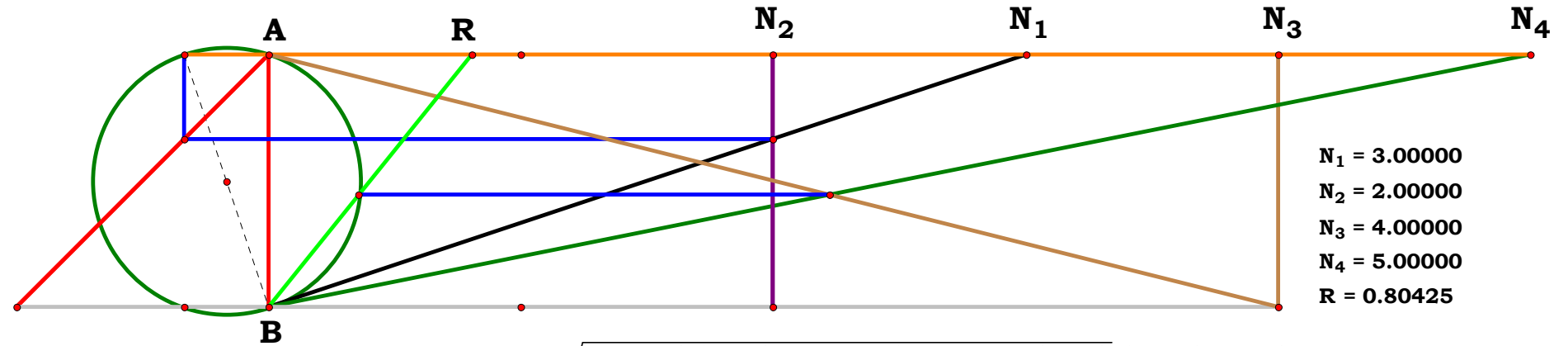
$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BJ := \frac{AB \cdot N_3}{N_3 + N_4} \quad FH := \sqrt{AB^2 + AC^2}$$

$$GH := BJ + \frac{FH - AB}{2} \quad GE := \sqrt{GH \cdot (FH - GH)}$$

$$JE := GE - \frac{AC}{2} \quad R := \frac{JE \cdot AB}{BJ} \quad R = 0.653525$$



Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

$$R - \frac{\sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2)} - (N_3 + N_4) \cdot (N_1 - N_2)}{2 \cdot N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{2 \cdot B \cdot D} = 0$$

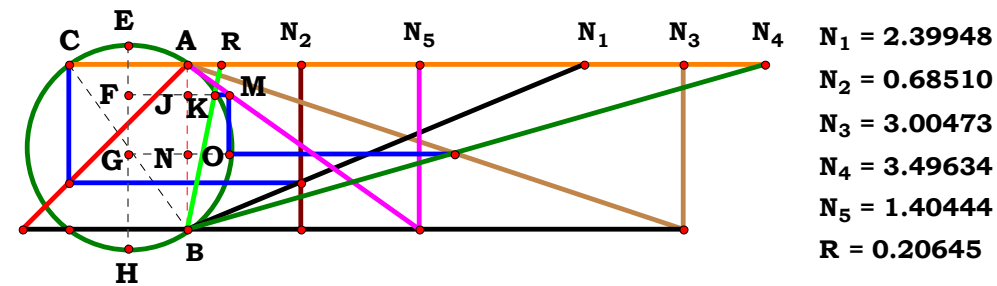
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{(Y \cdot p + Z \cdot o) \cdot (X \cdot m - W \cdot n) + \sqrt{(Y^2 \cdot p^2 + Z^2 \cdot o^2) \cdot (W \cdot n - X \cdot m)^2 + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (3 \cdot W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + X^2 \cdot m^2)}}{2 \cdot W \cdot Y \cdot n \cdot p} = 0$$

$$\frac{\sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2) + N_2^2)} - (N_3 + N_4) \cdot (N_1 - N_2)}{2 \cdot N_1 \cdot N_3} - R = 0.00000$$



Unit.
AB := 1
 Given.
N₁ := 2.39948 **N₃** := 3.00473
N₂ := .68510 **N₄** := 3.49634
N₅ := 1.40444



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

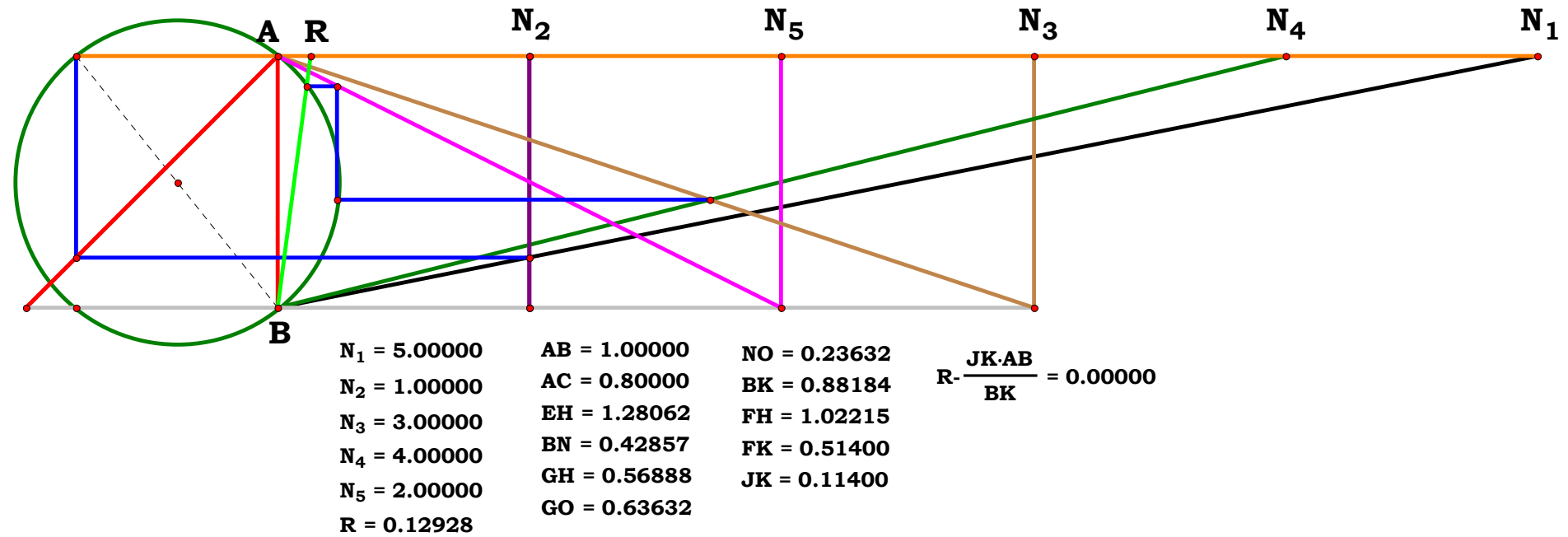
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.206449$$

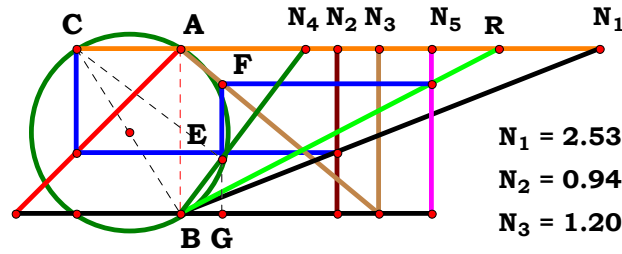


Definitions.

$$R - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot (AC + N_5) + 4 \cdot N_3^2} \dots \right.} \right.}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[AC \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$



4RST3AB1R10



$N_1 = 2.53508$ $N_4 = 0.75526$
 $N_2 = 0.94661$ $N_5 = 1.52067$
 $N_3 = 1.20317$ $R = 1.92625$

Unit. $AB := 1$ Given. $N_1 := 2.53508$ $N_2 := .94661$ $N_3 := 1.20317$

$N_4 := .75526$ $N_5 := 1.52067$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BG := N_4 \cdot \frac{(BN_4 - EN_4)}{BN_4}$$

$$FG := AB \cdot \frac{(N_3 - BG)}{N_3} \quad R := \frac{N_5 \cdot AB}{FG} \quad R = 1.926251$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2} = 0$$

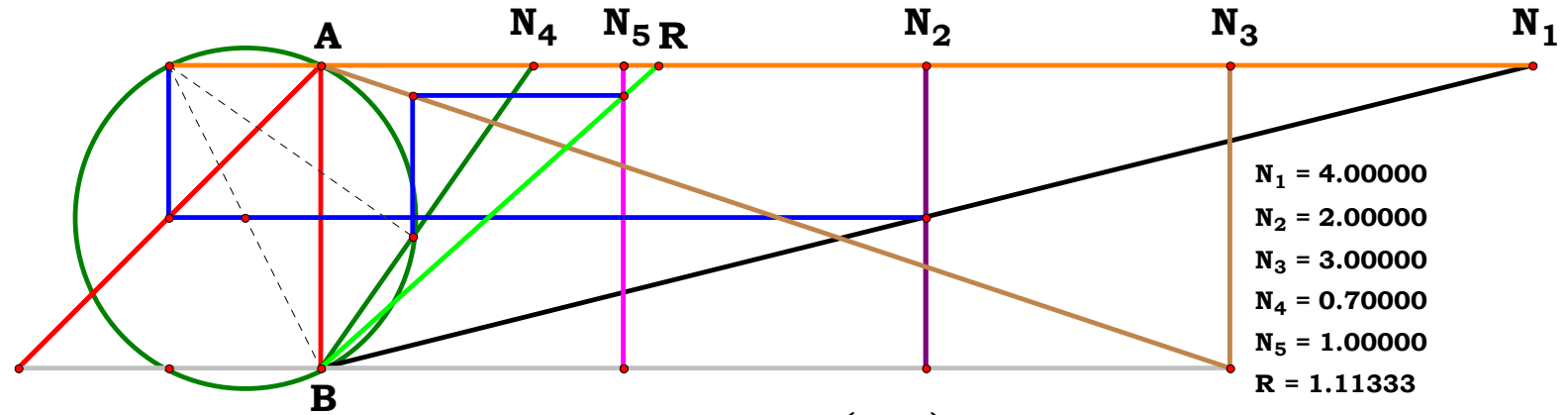
$$R - \frac{N_1 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_4^2 \cdot (N_1 - N_2 + N_1 \cdot N_3) - N_1 \cdot N_4 + N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (D^2 + N_u^2)}{E \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)]} = 0$$

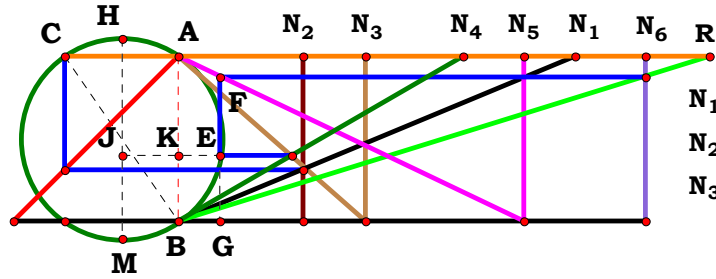
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Z \cdot m \cdot (Y^2 + o^2)}{p \cdot [Y^2 \cdot n \cdot (V \cdot m - W \cdot l) + V \cdot X \cdot m \cdot (Y^2 + o^2) - V \cdot Y \cdot m \cdot n \cdot o]} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 0.70000$
 $N_5 = 1.00000$
 $R = 1.11333$

$$\frac{N_1 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{(N_4^2 \cdot ((N_1 - N_2) + N_1 \cdot N_3) - N_1 \cdot N_4) + N_1 \cdot N_3} - R = 0.00000$$



$$\begin{array}{ll} N_1 = 2.39948 & N_4 = 1.72384 \\ N_2 = 0.75290 & N_5 = 2.09213 \\ N_3 = 1.13537 & N_6 = 2.82825 \\ & R = 3.21994 \end{array}$$

$$\begin{array}{llll} \text{Unit.} & AB := 1 & \text{Given.} & N_1 := 2.39948 \quad N_2 := .75290 \quad N_3 := 1.13537 \\ & & & N_4 := 1.72384 \quad N_5 := 2.09213 \quad N_6 := 2.82825 \end{array}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

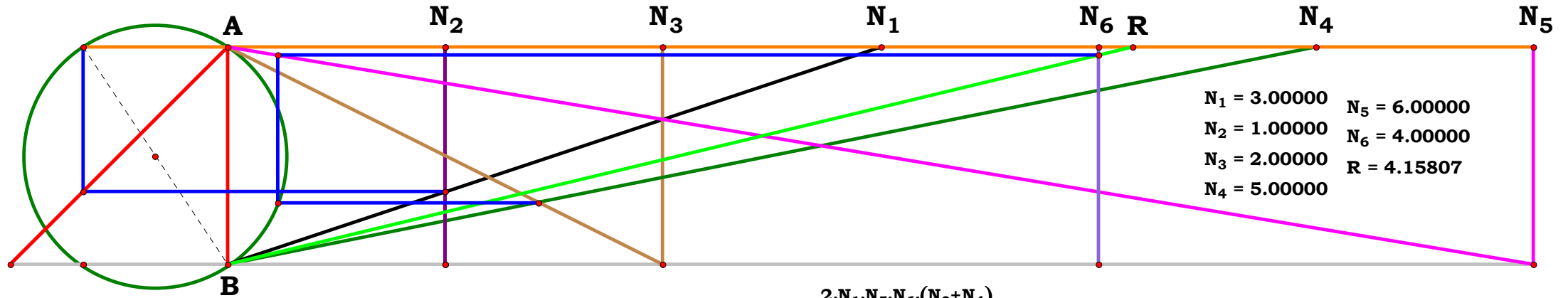
$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

$$AC := \frac{N_1 - N_2}{N_1} \quad EG := \frac{N_3 \cdot AB}{N_3 + N_4} \quad HM := \sqrt{AB^2 + AC^2}$$

$$JM := EG + \frac{HM - AB}{2} \quad JE := \sqrt{JM \cdot (HM - JM)}$$

$$BG := JE - \frac{AC}{2} \quad FG := \frac{AB \cdot (N_5 - BG)}{N_5}$$

$$R := \frac{N_6 \cdot AB}{FG} \quad R = 3.219938$$



$$\begin{array}{ll} N_1 = 3.00000 & N_5 = 6.00000 \\ N_2 = 1.00000 & N_6 = 4.00000 \\ N_3 = 2.00000 & R = 4.15807 \\ N_4 = 5.00000 & \end{array}$$

Definitions.

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

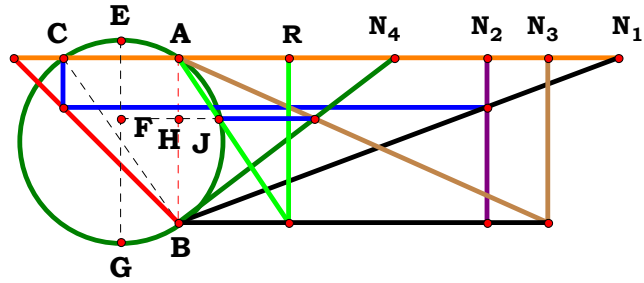
$$R - \frac{2 \cdot N_1 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot (N_1 - N_2) + 2 \cdot N_1 \cdot N_5 \cdot (N_3 + N_4) - \sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{F \cdot [(C + D) \cdot [E \cdot (B - A) + 2 \cdot B \cdot N_u] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}]} = 0 \quad N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot U \cdot Y \cdot Z \cdot l \cdot (W \cdot n + X \cdot m)}{p \cdot [(W \cdot n + X \cdot m) \cdot (2 \cdot U \cdot Y \cdot l + U \cdot l \cdot o - V \cdot k \cdot o) - o \cdot \sqrt{(W^2 \cdot n^2 + X^2 \cdot m^2) \cdot (U \cdot l - V \cdot k)^2 + 2 \cdot W \cdot X \cdot m \cdot n \cdot (3 \cdot U^2 \cdot l^2 - 2 \cdot U \cdot V \cdot k \cdot l + V^2 \cdot k^2)}]} = 0$$

$$\frac{2 \cdot N_1 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{((N_3 + N_4) \cdot (N_1 - N_2) + 2 \cdot N_1 \cdot N_5 \cdot (N_3 + N_4)) - \sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2) + N_2^2)}} - R = 0.00000$$



$N_1 = 2.66100$
 $N_2 = 1.86676$
 $N_3 = 2.23955$
 $N_4 = 1.30735$
 $R = 0.66659$

Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.86676$ $N_3 := 2.23955$ $N_4 := 1.30735$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

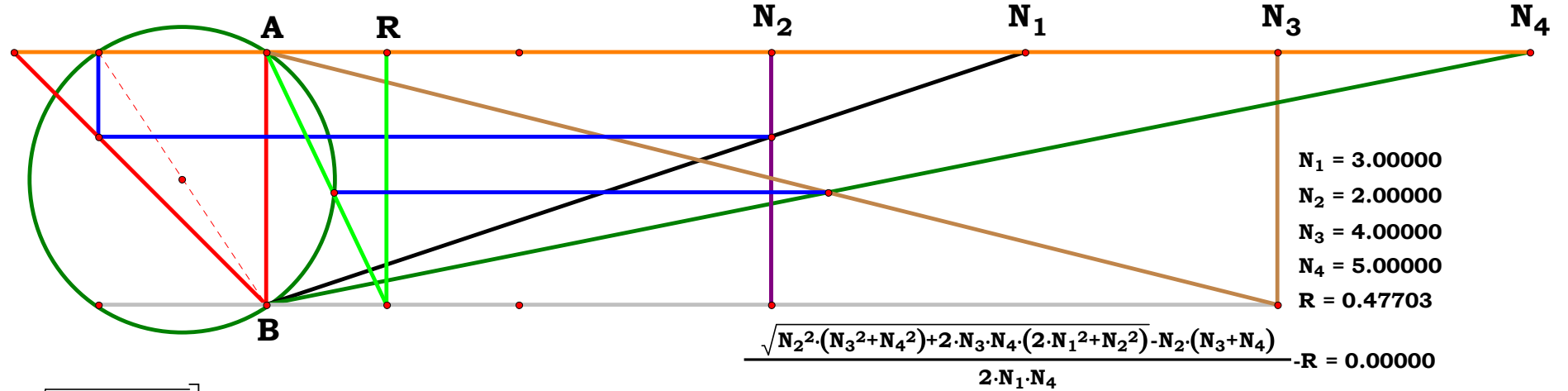
$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad AH := \frac{AB \cdot N_4}{N_4 + N_3} \quad EG := \sqrt{AB^2 + AC^2}$$

$$EF := AH + \frac{(EG - AB)}{2} \quad FJ := \sqrt{EF \cdot (EG - EF)}$$

$$HJ := FJ - \frac{AC}{2} \quad R := \frac{HJ \cdot AB}{AH} \quad R = 0.666591$$



Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

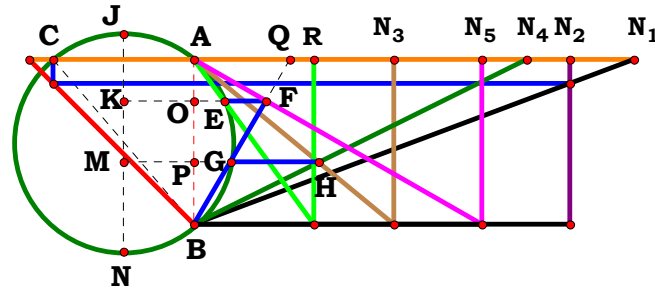
$$R - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) - N_2 \cdot (N_3 + N_4)}}{2 \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2) - A \cdot (C + D)}}{2 \cdot B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{X^2 \cdot m^2 \cdot (Y^2 \cdot p^2 + Z^2 \cdot o^2) + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (2 \cdot W^2 \cdot n^2 + X^2 \cdot m^2) - X \cdot m \cdot (Y \cdot p + Z \cdot o)}}{2 \cdot W \cdot Z \cdot n \cdot o} = 0$$



$N_1 = 2.66100$
 $N_2 = 2.27357$
 $N_3 = 1.21286$
 $N_4 = 2.01441$
 $N_5 = 1.74751$
 $R = 0.72462$

Given. $AB := 1$ Unit. $N_1 := 2.66100$ $N_2 := 1.50839$ $N_3 := 1.212839$
 $N_4 := 2.01441$ $N_5 := 1.74751$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \quad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

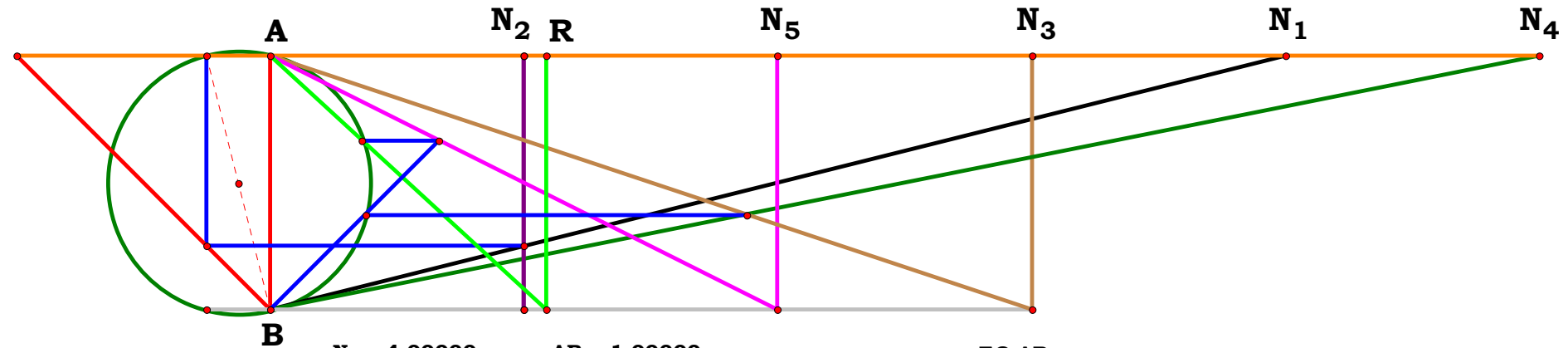
$$GM := \sqrt{JM \cdot (JN - JM)} \quad PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP} \quad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2} \quad EK := \sqrt{JK \cdot (JN - JK)}$$

$$EO := EK - \frac{AC}{2} \quad R := \frac{EO \cdot AB}{AO}$$

$$R = 0.855795$$



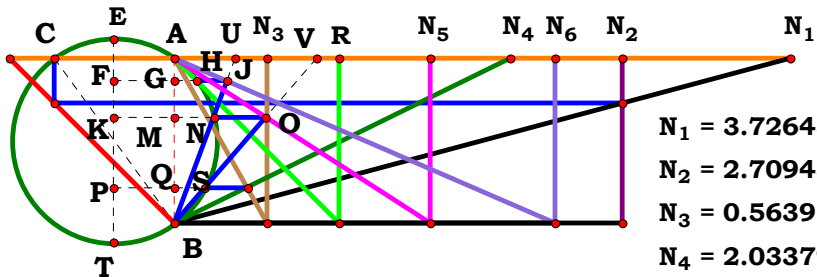
$N_1 = 4.00000$ $AB = 1.00000$ $PG = 0.37500$ $R \cdot \frac{EO \cdot AB}{AO} = 0.00000$
 $N_2 = 1.00000$ $AC = 0.25000$ $AQ = 1.00000$
 $N_3 = 3.00000$ $BP = 0.37500$ $AO = 0.33333$
 $N_4 = 5.00000$ $JN = 1.03078$ $JK = 0.34872$
 $N_5 = 2.00000$ $JM = 0.64039$ $EK = 0.48770$
 $R = 1.08809$ $GM = 0.50000$ $EO = 0.36270$

Definitions.

$$AC - \frac{N_2}{N_1} = 0 \quad BP - \frac{N_3}{N_3 + N_4} = 0 \quad JN - \frac{\sqrt{N_1^2 + N_2^2}}{N_1} = 0 \quad JM - \frac{N_1 \cdot (N_4 - N_3) + \sqrt{N_1^2 + N_2^2} \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0 \quad GM - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_4 \cdot N_3 \cdot (2 \cdot N_1^2 + N_2^2)}}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

$$PG - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_4 \cdot N_3 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0 \quad AQ - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_4 \cdot N_3 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot N_3} = 0$$

$$AO - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot (N_3 + N_4)}{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot N_3 - N_2 \cdot N_4 + 2 \cdot N_1 \cdot N_3 \cdot N_5} = 0 \quad \text{Etc.}$$



Unit. $AB := 1$ Given. $N_1 := 3.72643$ $N_2 := 2.70943$ $N_3 := .56391$
 $N_4 := 2.03379$ $N_5 := 1.55380$ $N_6 := 2.30522$

Descriptions.

$$AC := \frac{N_2}{N_1} \qquad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \qquad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \qquad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ} \qquad BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2} \qquad KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2} \qquad AU := \frac{MN \cdot AB}{BM}$$

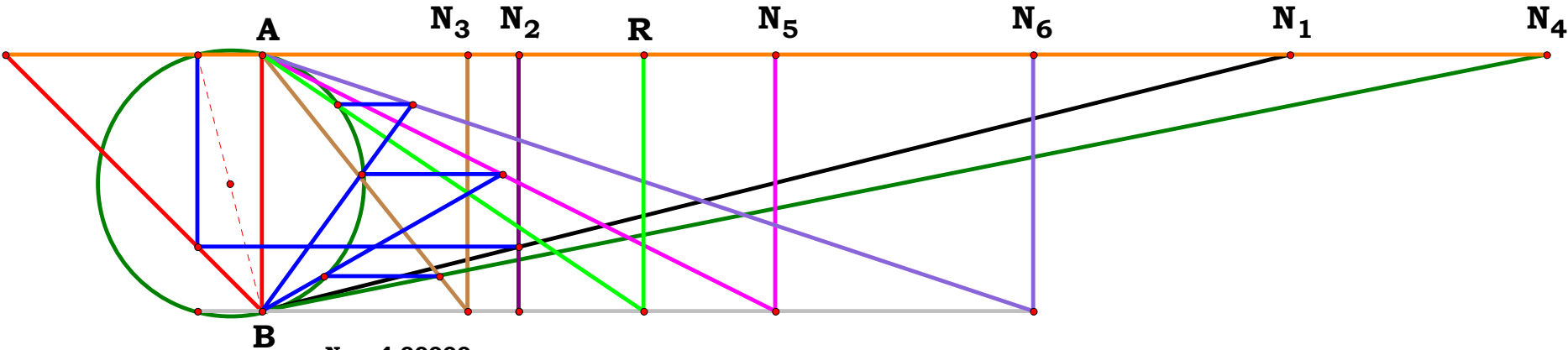
$$BG := \frac{AB \cdot N_6}{AU + N_6} \qquad AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \qquad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \qquad R := \frac{GH \cdot AB}{AG}$$

$$R = 0.997203$$

Definitions.



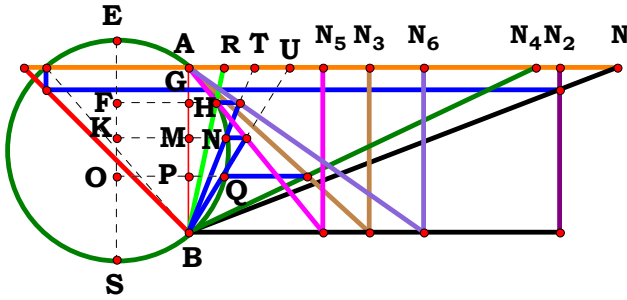


4RST3AB2R5

Descriptions.

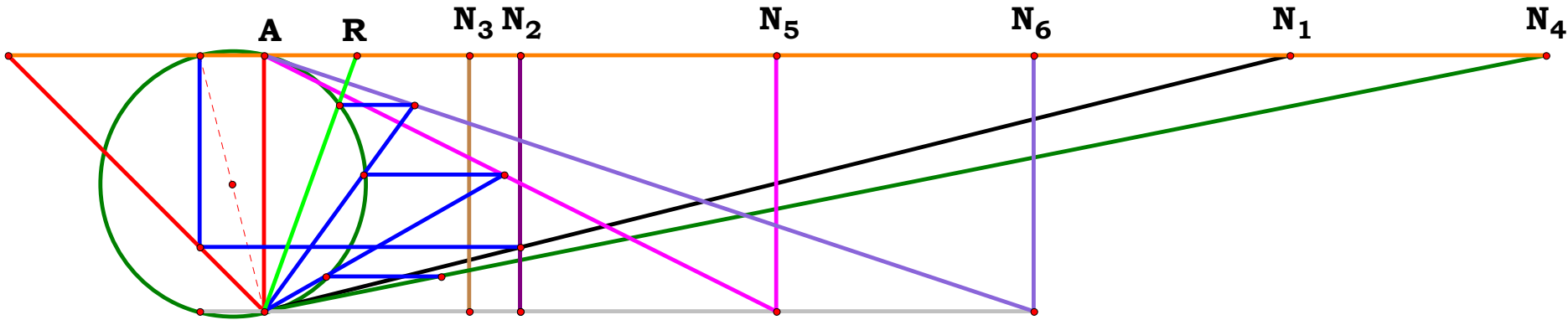
$$\begin{aligned}
 AC &:= \frac{N_2}{N_1} & BP &:= \frac{AB \cdot N_3}{N_3 + N_4} \\
 ES &:= \sqrt{AB^2 + AC^2} & OS &:= BP + \frac{ES - AB}{2} \\
 OQ &:= \sqrt{OS \cdot (ES - OS)} & PQ &:= OQ - \frac{AC}{2} \\
 AU &:= \frac{PQ \cdot AB}{BP} & BM &:= \frac{AB \cdot N_5}{N_5 + AU} \\
 KS &:= BM + \frac{ES - AB}{2} & KN &:= \sqrt{KS \cdot (ES - KS)} \\
 MN &:= KN - \frac{AC}{2} & AT &:= \frac{MN \cdot AB}{BM} \\
 BG &:= \frac{N_6 \cdot AB}{N_6 + AT} & FS &:= BG + \frac{ES - AB}{2} \\
 FH &:= \sqrt{FS \cdot (ES - FS)} & GH &:= FH - \frac{AC}{2} \\
 R &:= \frac{GH \cdot AB}{BG} & R &= 0.209765
 \end{aligned}$$

Definitions.

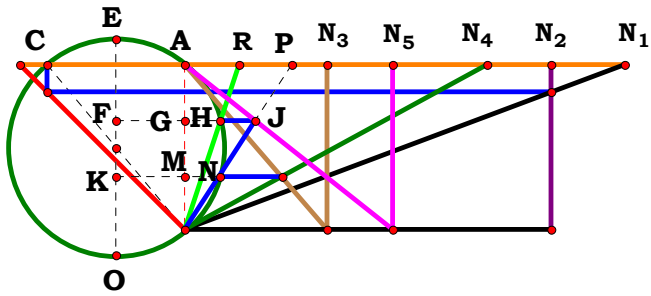


$$\begin{aligned}
 N_1 &= 2.59320 & N_5 &= 0.81768 \\
 N_2 &= 2.24451 & N_6 &= 1.42381 \\
 N_3 &= 1.09663 & R &= 0.20977 \\
 N_4 &= 2.10159
 \end{aligned}$$

$$\begin{aligned}
 \text{Unit. } AB &:= 1 \text{ Given.} & N_1 &:= 2.59320 & N_2 &:= 2.24451 & N_3 &:= 1.09663 \\
 & & N_4 &:= 2.10159 & N_5 &:= .81768 & N_6 &:= 1.42381
 \end{aligned}$$



$N_1 = 4.00000$	$AB = 1.00000$	$AU = 1.75294$	$FS = 0.81955$
$N_2 = 1.00000$	$AC = 0.25000$	$BM = 0.53292$	$FH = 0.41606$
$N_3 = 0.80000$	$BP = 0.13793$	$KS = 0.54830$	$GH = 0.29106$
$N_4 = 5.00000$	$ES = 1.03078$	$KN = 0.51434$	$R \cdot \frac{GH \cdot AB}{BG} = 0.00000$
$N_5 = 2.00000$	$OS = 0.15332$	$MN = 0.38934$	
$N_6 = 3.00000$	$OQ = 0.36678$	$AT = 0.73058$	
$R = 0.36194$	$PQ = 0.24178$	$BG = 0.80417$	



$N_1 = 2.66100$
 $N_2 = 2.21545$
 $N_3 = 0.86417$
 $N_4 = 1.83038$
 $N_5 = 1.26322$
 $R = 0.32517$

Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 2.21545$ $N_3 := .86417$
 $N_4 := 1.83038$ $N_5 := 1.26322$

Descriptions.

$AC := \frac{N_2}{N_1}$ $BM := \frac{N_3 \cdot AB}{N_3 + N_4}$

$EO := \sqrt{AB^2 + AC^2}$ $KO := BM + \frac{EO - AB}{2}$

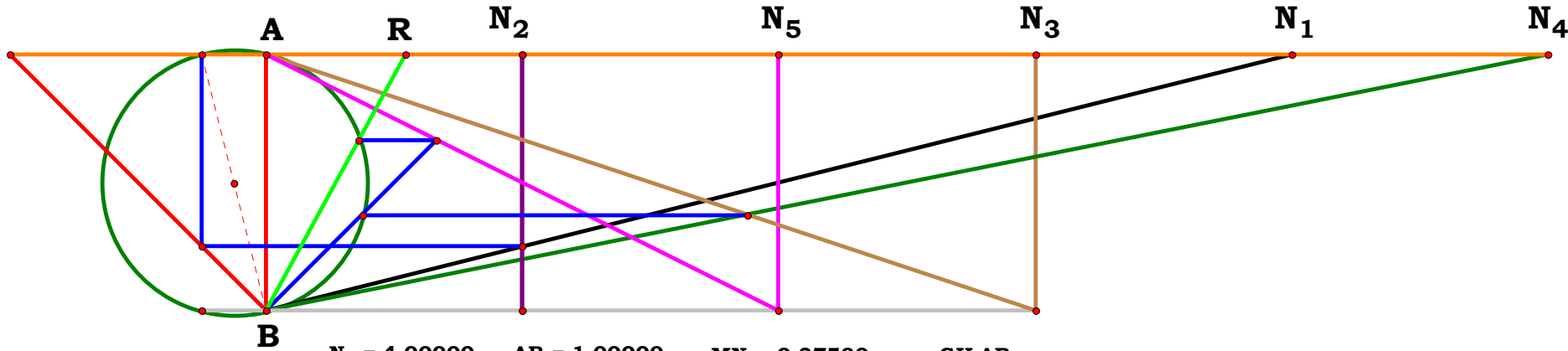
$KN := \sqrt{KO \cdot (EO - KO)}$ $MN := KN - \frac{AC}{2}$

$AP := \frac{MN \cdot AB}{BM}$ $BG := \frac{N_5 \cdot AB}{AP + N_5}$

$FO := BG + \frac{EO - AB}{2}$ $FH := \sqrt{FO \cdot (EO - FO)}$

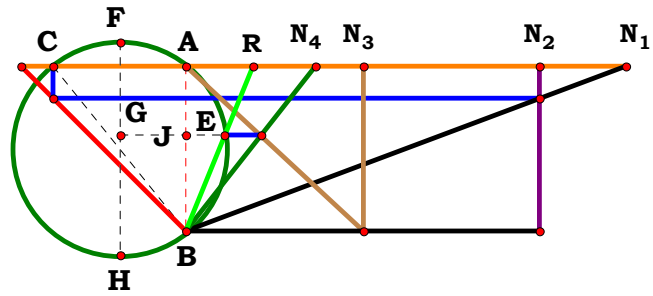
$GH := FH - \frac{AC}{2}$ $R := \frac{GH \cdot AB}{BG}$

$R = 0.325173$



$N_1 = 4.00000$	$AB = 1.00000$	$MN = 0.37500$	$R - \frac{GH \cdot AB}{BG} = 0.00000$
$N_2 = 1.00000$	$AC = 0.25000$	$AP = 1.00000$	
$N_3 = 3.00000$	$BM = 0.37500$	$BG = 0.66667$	
$N_4 = 5.00000$	$EO = 1.03078$	$FO = 0.68205$	
$N_5 = 2.00000$	$KO = 0.39039$	$FH = 0.48770$	
$R = 0.54404$	$KN = 0.50000$	$GH = 0.36270$	

Definitions.



$N_1 = 2.66100$
 $N_2 = 2.13797$
 $N_3 = 1.07726$
 $N_4 = 0.78432$
 $R = 0.40579$

Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 2.13797$ $N_3 := 1.07726$ $N_4 := .78432$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BJ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \quad GH := BJ + \frac{FH - AB}{2}$$

$$GE := \sqrt{GH \cdot (FH - GH)} \quad JE := GE - \frac{AC}{2}$$

$$R := \frac{JE \cdot AB}{BJ} \quad R = 0.40579$$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

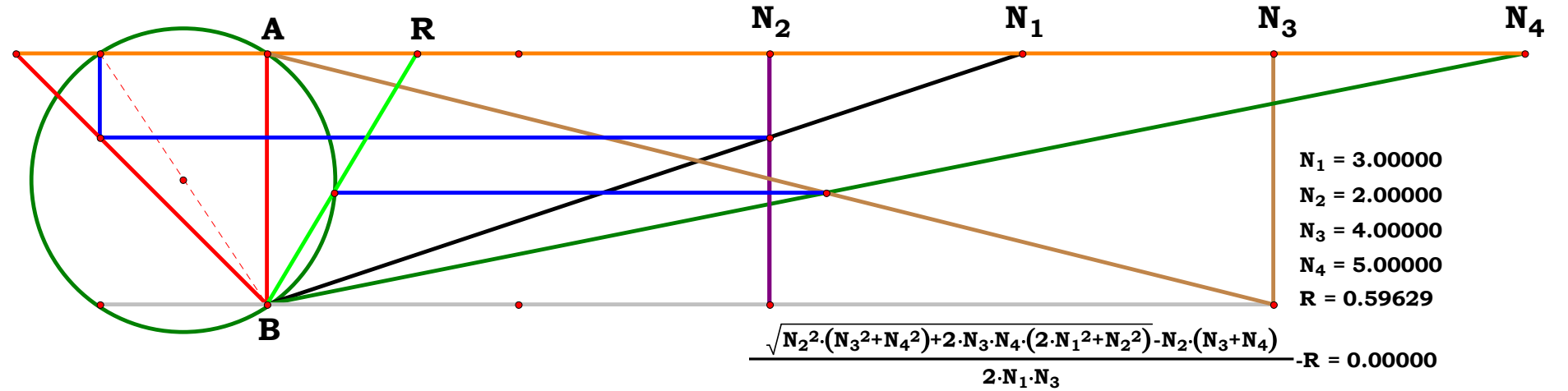
$$R - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot N_3} = 0$$

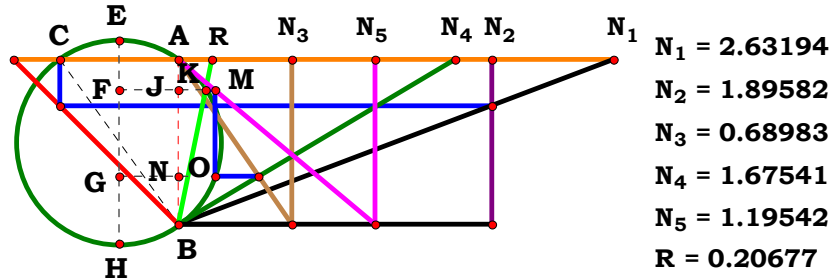
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)}{2 \cdot B \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{X^2 \cdot m^2 \cdot (Y^2 \cdot p^2 + Z^2 \cdot o^2) + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (2 \cdot W^2 \cdot n^2 + X^2 \cdot m^2)} - X \cdot m \cdot (Y \cdot p + Z \cdot o)}{2 \cdot W \cdot Y \cdot n \cdot p} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.63194$ $N_2 := 1.89582$ $N_3 := .68983$
 $N_4 := 1.67541$ $N_5 := 1.19542$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.206773$$

Definitions.

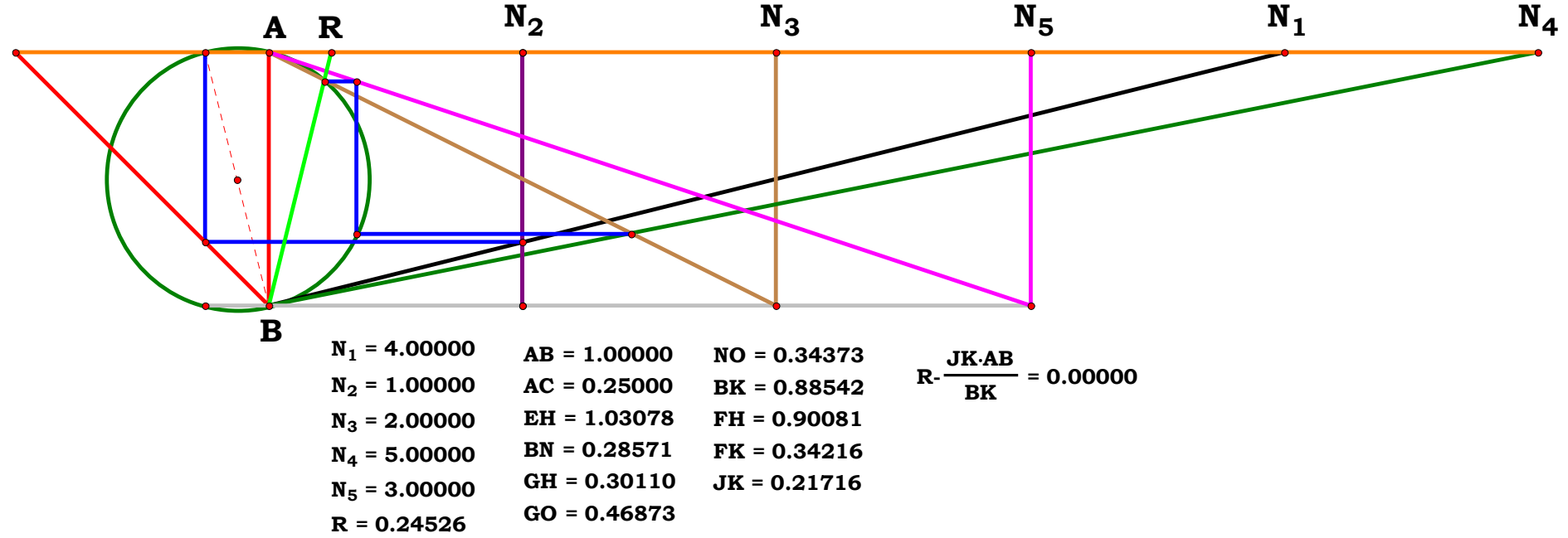
$$AC - \frac{N_2}{N_1} = 0 \quad EH - \frac{\sqrt{N_1^2 + N_2^2}}{N_1} = 0 \quad BN - \frac{N_3}{N_3 + N_4} = 0$$

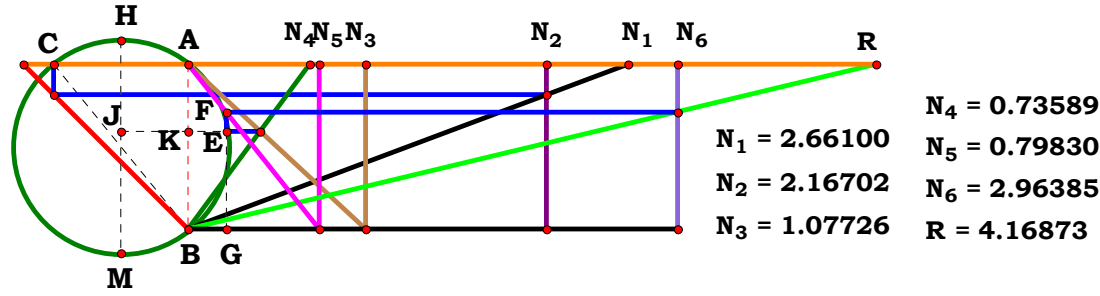
$$GH - \left[\frac{(N_3 + N_4) \cdot \sqrt{N_1^2 + N_2^2} + N_1 \cdot (N_3 - N_4)}{2 \cdot N_1 \cdot (N_3 + N_4)} \right] = 0 \quad GO - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_4 \cdot N_3 \cdot (2 \cdot N_1^2 + N_2^2)}}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

$$NO - \frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_4 \cdot N_3 \cdot (2 \cdot N_1^2 + N_2^2)} - N_2 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

$$BK - \frac{(N_3 + N_4) \cdot (N_2 + 2 \cdot N_1 \cdot N_5) - \sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2)}}{2 \cdot N_5 \cdot N_1 \cdot (N_3 + N_4)} = 0$$

$$FH - \frac{(N_3 \cdot N_5 + N_4 \cdot N_5) \cdot \sqrt{N_1^2 + N_2^2} + (N_3 + N_4) \cdot (N_2 + N_1 \cdot N_5) - \sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2)}}{2 \cdot N_1 \cdot N_5 \cdot (N_3 + N_4)} = 0 \quad \text{Etc.}$$





Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 2.16702$ $N_3 := 1.07726$
 $N_4 := .73589$ $N_5 := .79830$ $N_6 := 2.96385$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$AC := \frac{N_2}{N_1}$ $EG := \frac{N_3 \cdot AB}{N_3 + N_4}$

$HM := \sqrt{AB^2 + AC^2}$ $JM := EG + \frac{HM - AB}{2}$

$JE := \sqrt{JM \cdot (HM - JM)}$ $BG := JE - \frac{AC}{2}$

$FG := \frac{AB \cdot (N_5 - BG)}{N_5}$ $R := \frac{N_6 \cdot AB}{FG}$ $R = 4.168744$

Definitions.

$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$

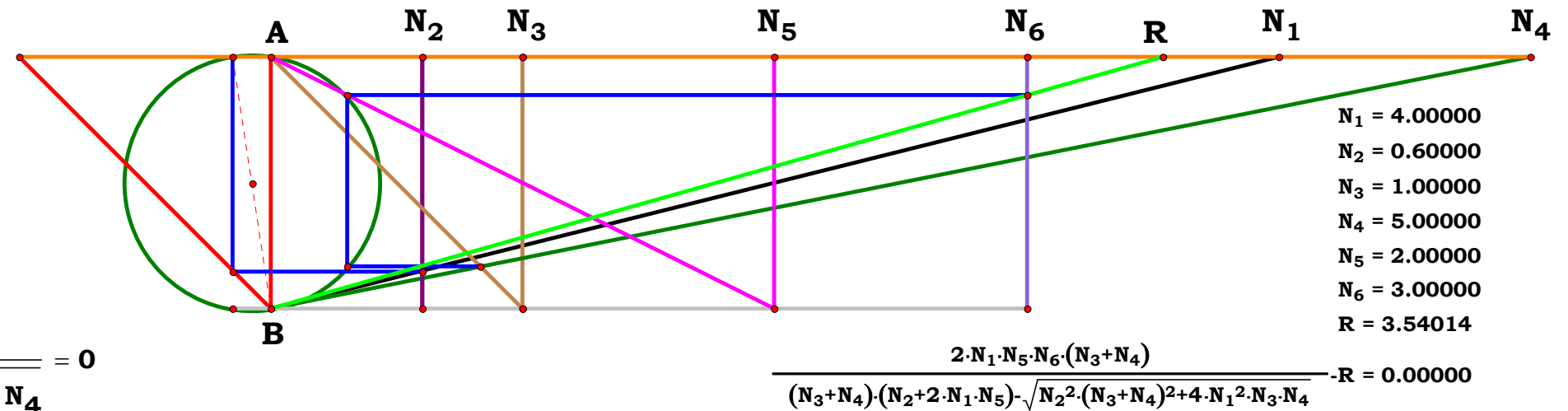
$R - \frac{2 \cdot N_1 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot (N_2 + 2 \cdot N_1 \cdot N_5) - \sqrt{N_2^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_1^2 \cdot N_3 \cdot N_4}} = 0$

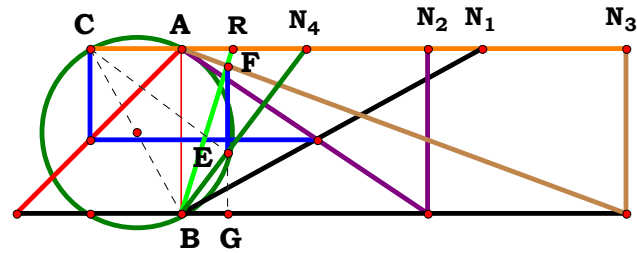
$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$ $N_6 - \frac{N_u}{F} = 0$

$R - \frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{F \cdot \left[(C + D) \cdot (A \cdot E + 2 \cdot B \cdot N_u) - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} \right]} = 0$

$N_1 - \frac{U}{k} = 0$ $N_2 - \frac{V}{l} = 0$ $N_3 - \frac{W}{m} = 0$ $N_4 - \frac{X}{n} = 0$ $N_5 - \frac{Y}{o} = 0$ $N_6 - \frac{Z}{p} = 0$

$R - \frac{2 \cdot U \cdot Y \cdot Z \cdot l \cdot (W \cdot n + X \cdot m)}{p \cdot \left[(W \cdot n + X \cdot m) \cdot (2 \cdot U \cdot Y \cdot l + V \cdot k \cdot o) - o \cdot \sqrt{4 \cdot U^2 \cdot W \cdot X \cdot l^2 \cdot m \cdot n + V^2 \cdot W^2 \cdot k^2 \cdot n^2 + 2 \cdot V^2 \cdot W \cdot X \cdot k^2 \cdot m \cdot n + V^2 \cdot X^2 \cdot k^2 \cdot m^2} \right]} = 0$





$N_1 = 1.81833$
 $N_2 = 1.48902$
 $N_3 = 2.69478$
 $N_4 = 0.75526$
 $R = 0.31400$

Unit. $AB := 1$ Given. $N_1 := 1.81833$ $N_2 := 1.48902$ $N_3 := 2.69478$ $N_4 := .75526$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BE := BN_4 - EN_4 \quad BG := \frac{N_4 \cdot BE}{BN_4}$$

$$FG := \frac{AB \cdot (N_3 - BG)}{N_3} \quad R := \frac{BG \cdot AB}{FG} \quad R = 0.314003$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC \cdot N_4 - 1)}{N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2} = 0$$

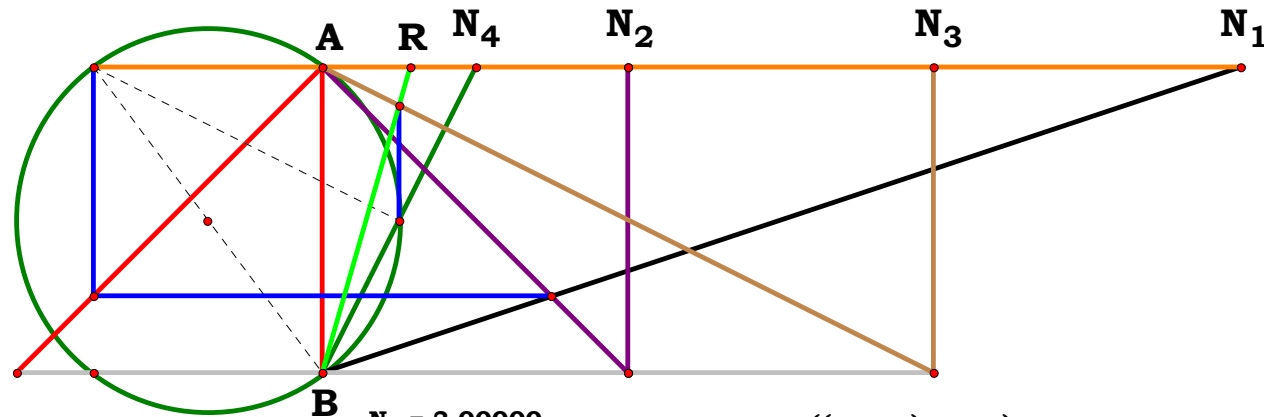
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2 - N_1 \cdot N_4)}{N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) + (N_3 - N_4) \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot [D \cdot (A + B) - B \cdot N_u]}{D^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + B \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot n \cdot p - W \cdot Z \cdot n + X \cdot m \cdot p)}{Y \cdot (Z^2 + p^2) \cdot (W \cdot n + X \cdot m) + Z \cdot o \cdot (W \cdot Z \cdot n - W \cdot n \cdot p - X \cdot m \cdot p)} = 0$$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 2.00000$
 $N_4 = 0.50000$
 $R = 0.28571$

$$\frac{N_3 \cdot N_4 \cdot ((N_1 + N_2) - N_1 \cdot N_4)}{N_4^2 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) + (N_3 - N_4) \cdot (N_1 + N_2)} \cdot R = 0.00000$$



4RST3AB3R1

Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_1 + N_2} & AH &:= \frac{AB \cdot N_4}{N_4 + N_3} \\ EG &:= \sqrt{AB^2 + AC^2} & EF &:= AH + \frac{(EG - AB)}{2} \\ FJ &:= \sqrt{EF \cdot (EG - EF)} & HJ &:= FJ - \frac{AC}{2} \\ R &:= \frac{HJ \cdot AB}{AH} & R &= 0.611133 \end{aligned}$$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

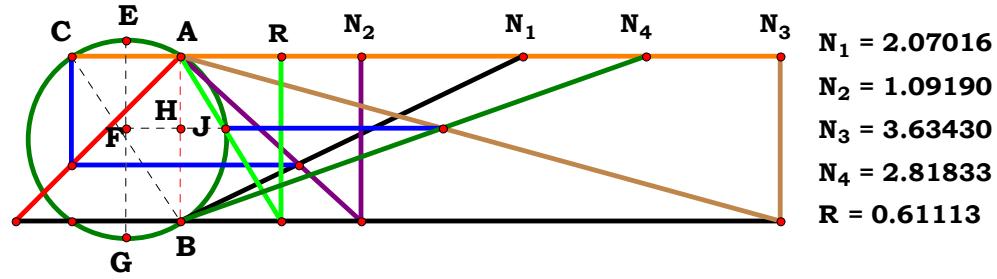
$$R - \frac{N_1 \cdot N_3 - \sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1 + N_2) + N_1 \cdot N_4}}{2 \cdot (N_1 + N_2) \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{2 \cdot C \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

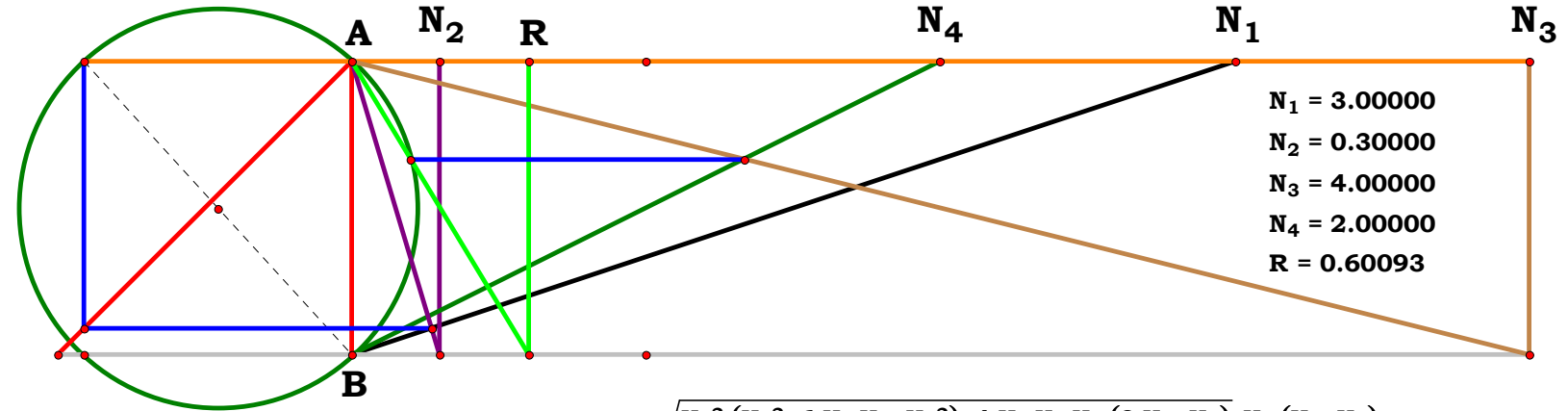
$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot (Y^2 \cdot p^2 + Z^2 \cdot o^2) + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (3 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 2 \cdot X^2 \cdot m^2)} - W \cdot n \cdot (Y \cdot p + Z \cdot o)}{2 \cdot (W \cdot n + X \cdot m) \cdot Z \cdot o} = 0$$



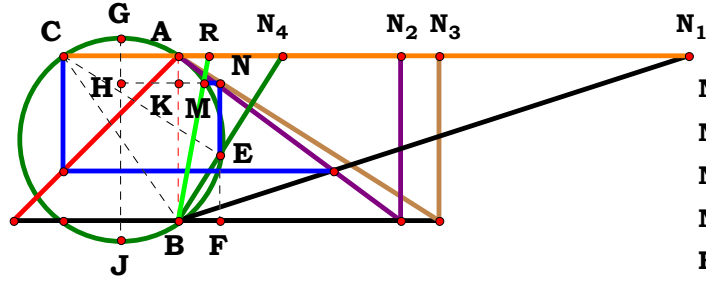
Unit. $AB := 1$ Given. $N_1 := 2.07016$ $N_2 := 1.09190$ $N_3 := 3.63430$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $N_4 := 2.81833$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$$\frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1 + N_2) + N_1 \cdot (N_3 + N_4)}}{2 \cdot N_4 \cdot (N_1 + N_2)} - R = 0.00000$$



$N_1 = 3.08717$
 $N_2 = 1.34373$
 $N_3 = 1.58092$
 $N_4 = 0.62935$
 $R = 0.18745$

Unit. $AB := 1$ Given. $N_1 := 3.08717$ $N_2 := 1.34373$ $N_3 := 1.58092$ $N_4 := .62935$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

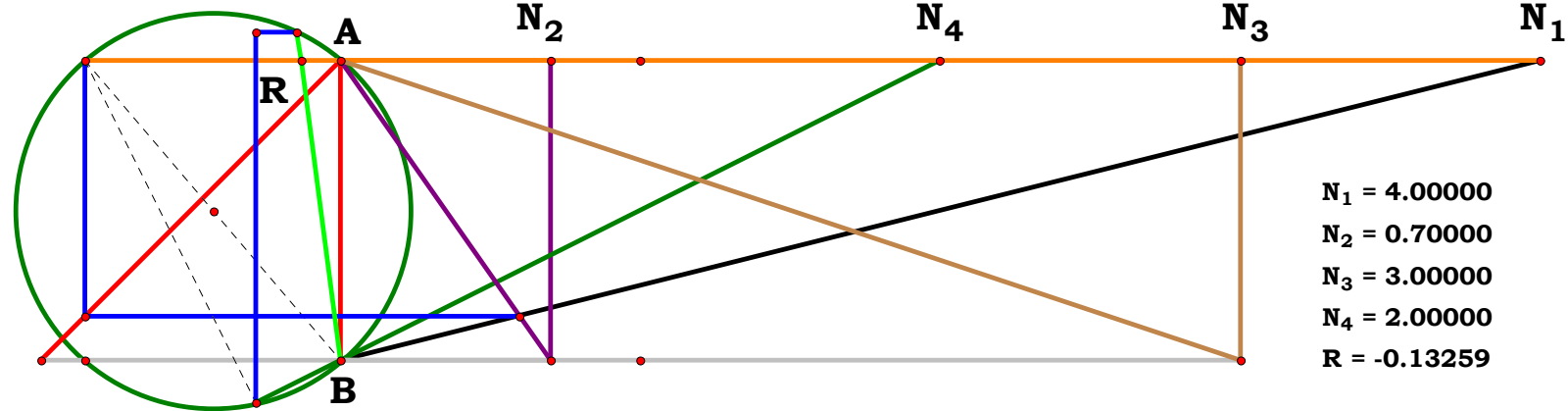
$$AC := \frac{N_1}{N_1 + N_2} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BF := \frac{N_4 \cdot (BN_4 - EN_4)}{BN_4} \quad AK := \frac{AB \cdot BF}{N_3}$$

$$GJ := \sqrt{AB^2 + AC^2} \quad GH := AK + \frac{GJ - AB}{2}$$

$$HM := \sqrt{GH \cdot (GJ - GH)} \quad KM := HM - \frac{AC}{2}$$

$$R := \frac{KM \cdot AB}{AB - AK} \quad R = 0.187449$$



$N_1 = 4.00000$
 $N_2 = 0.70000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $R = -0.13259$

$$\frac{\sqrt{(N_1 \cdot N_3)^2 \cdot (N_4^2 + 1)^2 - 4 \cdot N_4 \cdot (N_4 \cdot ((N_1 + N_2) - N_1 \cdot N_4) - N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)) \cdot ((N_1 + N_2) - N_1 \cdot N_4) - N_1 \cdot N_3 \cdot (N_4^2 + 1)}}{(2 \cdot (N_1 \cdot ((N_4^2 - N_4) + N_3) + N_2 \cdot (N_3 - N_4) + N_3 \cdot N_4^2 \cdot (N_1 + N_2)))} - R = 0.00000$$

Definitions.

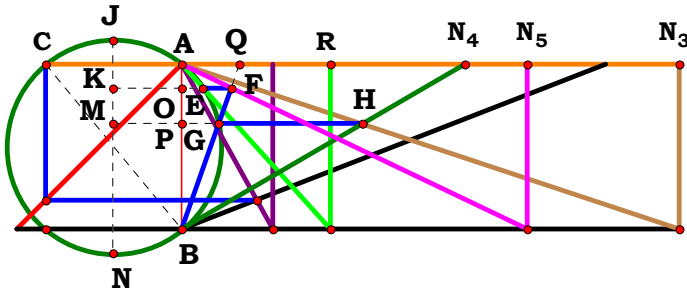
$$R - \frac{N_3 \cdot (N_4^2 + 1) \cdot \left[AC \cdot N_3 \cdot (N_4^2 + 1) - \sqrt{AC \cdot N_3 \cdot N_4^2 \cdot (2 \cdot AC \cdot N_3 - 4 \cdot N_4^2 + AC \cdot N_3 \cdot N_4^2 - 4) + AC^2 \cdot N_3^2 - 4 \cdot AC \cdot N_4^3 \cdot (AC \cdot N_4 - 2) + 4 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) - 4 \cdot N_4^2} \right]}{2 \cdot \sqrt{\left[N_3 \cdot (N_4^2 + 1) \right]^2 \cdot (N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2)}} = 0$$

$$R - \frac{N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1) \cdot \left[\sqrt{N_1^2 \cdot N_3^2 \cdot (N_4^2 + 1)^2 - 4 \cdot N_4 \cdot \left[N_4 \cdot (N_1 + N_2 - N_1 \cdot N_4) - N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1) \right] \cdot (N_1 + N_2 - N_1 \cdot N_4) - N_1 \cdot N_3 \cdot (N_4^2 + 1)} \right]}{2 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2)^2 \cdot (N_4^2 + 1)^2 \cdot (N_1 \cdot N_4^2 + N_1 \cdot N_3 - N_1 \cdot N_4 + N_2 \cdot N_3 - N_2 \cdot N_4 + N_1 \cdot N_3 \cdot N_4^2 + N_2 \cdot N_3 \cdot N_4^2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot (D^2 + N_u^2) - \sqrt{B^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot \left[(A + B) \cdot (D^2 - C \cdot D + N_u^2) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]}}{2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right]} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot W^2 \cdot n^2 \cdot (Z^2 + p^2)^2 - 4 \cdot Z \cdot o \cdot (W \cdot Z \cdot n - W \cdot n \cdot p - X \cdot m \cdot p) \cdot \left[Y \cdot (Z^2 + p^2) \cdot (W \cdot n + X \cdot m) + Z \cdot o \cdot (W \cdot Z \cdot n - W \cdot n \cdot p - X \cdot m \cdot p) \right] - W \cdot Y \cdot n \cdot (Z^2 + p^2)}}{2 \cdot (W \cdot Y \cdot Z^2 \cdot n + X \cdot Y \cdot Z^2 \cdot m + W \cdot Y \cdot n \cdot p^2 + W \cdot Z^2 \cdot n \cdot o + X \cdot Y \cdot m \cdot p^2 - W \cdot Z \cdot n \cdot o \cdot p - X \cdot Z \cdot m \cdot o \cdot p)} = 0$$

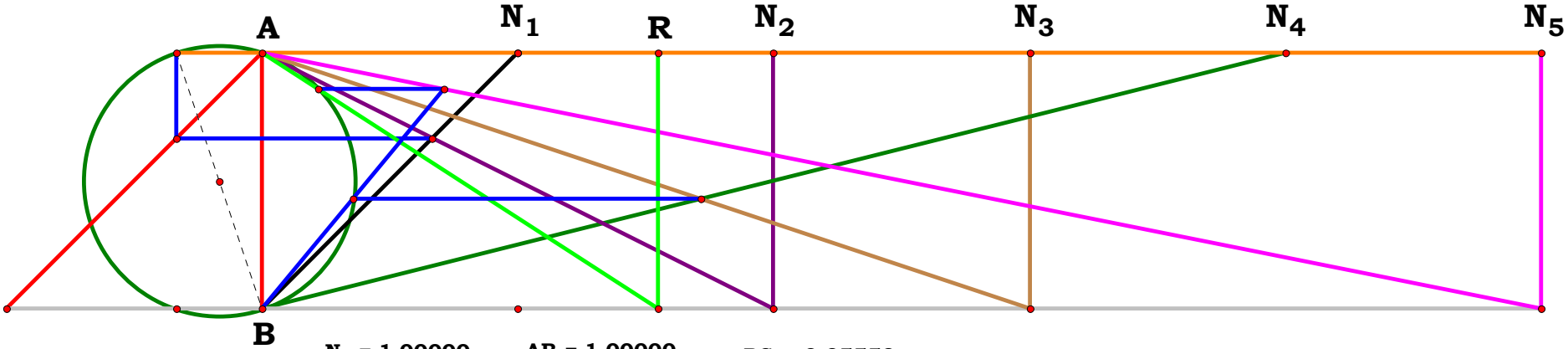


N₁ = 2.56414
N₂ = 0.54950
N₃ = 3.01441
N₄ = 1.71415
N₅ = 2.09213
R = 0.90124

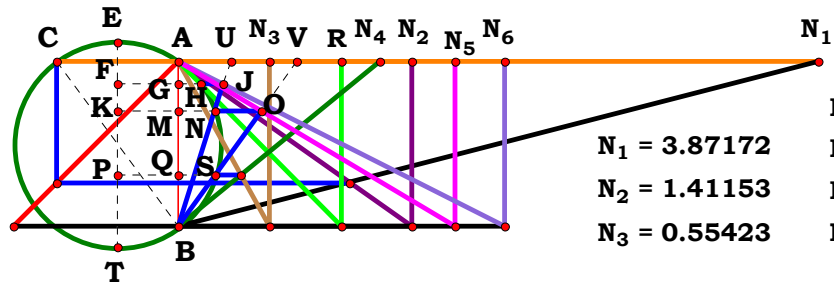
Unit. AB := 1 Given. N₁ := 3.87172 N₂ := 1.45996 N₃ := .70920
N₄ := 1.75290 N₅ := 3.09945

Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_1 + N_2} & BP &:= \frac{AB \cdot N_3}{N_3 + N_4} \\ JN &:= \sqrt{AB^2 + AC^2} & JM &:= JN - \left(BP + \frac{JN - AB}{2} \right) \\ GM &:= \sqrt{JM \cdot (JN - JM)} & PG &:= GM - \frac{AC}{2} \\ AQ &:= \frac{PG \cdot AB}{BP} & AO &:= \frac{AB \cdot AQ}{AQ + N_5} \\ JK &:= AO + \frac{JN - AB}{2} & EK &:= \sqrt{JK \cdot (JN - JK)} \\ EO &:= EK - \frac{AC}{2} & AR &:= \frac{EO \cdot AB}{AO} \\ AR &= 0.892637 \end{aligned}$$



N ₁ = 1.00000	AB = 1.00000	PG = 0.35552	R - $\frac{EO \cdot AB}{AO}$ = 0.00000
N ₂ = 2.00000	AC = 0.33333	AQ = 0.82954	
N ₃ = 3.00000	BP = 0.42857	AO = 0.14230	
N ₄ = 4.00000	JN = 1.05409	JK = 0.16935	
N ₅ = 5.00000	JM = 0.59847	EK = 0.38708	
R = 1.54891	GM = 0.52218	EO = 0.22041	



$N_1 = 3.87172$ $N_4 = 1.22018$
 $N_2 = 1.41153$ $N_5 = 1.67564$
 $N_3 = 0.55423$ $N_6 = 1.97696$
 $R = 0.99248$

Unit. $AB := 1$ Given. $N_1 := 3.87172$ $N_2 := 1.41153$ $N_3 := .55423$
 $N_4 := 1.22018$ $N_5 := 1.67564$ $N_6 := 1.97696$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ}$$

$$BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{AB \cdot N_6}{AU + N_6}$$

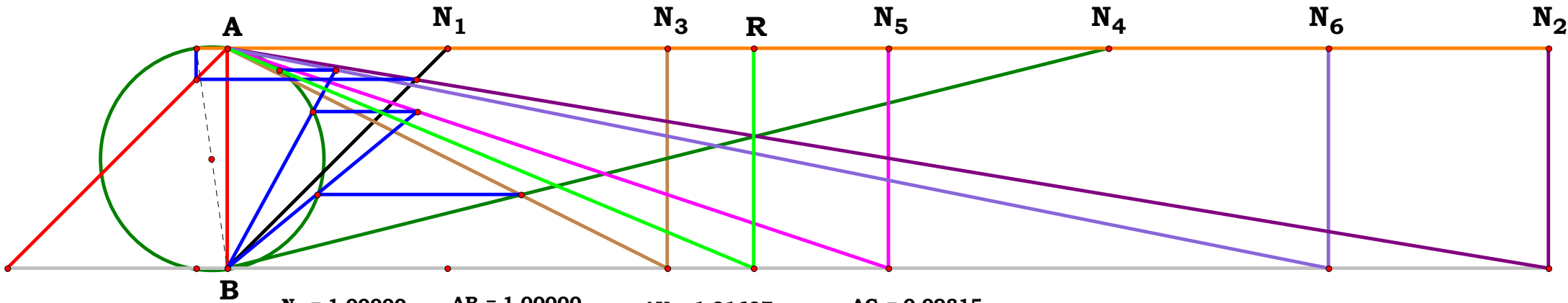
$$AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

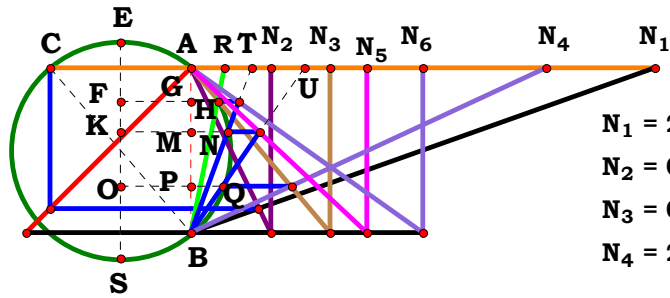
$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{AG}$$

$$AR = 0.992484$$

Definitions.



$N_1 = 1.00000$	$AB = 1.00000$	$AV = 1.21607$	$AG = 0.09815$
$N_2 = 6.00000$	$AC = 0.14286$	$BM = 0.71156$	$EF = 0.10323$
$N_3 = 2.00000$	$BQ = 0.33333$	$KT = 0.71664$	$FH = 0.30597$
$N_4 = 4.00000$	$ET = 1.01015$	$KN = 0.45863$	$GH = 0.23454$
$N_5 = 3.00000$	$EP = 0.67174$	$MN = 0.38720$	$R - \frac{GH \cdot AB}{AG} = 0.00000$
$N_6 = 5.00000$	$PS = 0.47679$	$AU = 0.54416$	
$R = 2.38964$	$QS = 0.40536$	$BG = 0.90185$	



$N_1 = 2.80628$ $N_5 = 1.06544$
 $N_2 = 0.48170$ $N_6 = 1.40550$
 $N_3 = 0.84480$ $R = 0.20285$
 $N_4 = 2.15002$

Unit. $AB := 1$ Given. $N_1 := 2.80628$ $N_2 := .48170$ $N_3 := .84480$
 $N_4 := 2.15002$ $N_5 := 1.06544$ $N_6 := 1.40550$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

$$MN := KN - \frac{AC}{2}$$

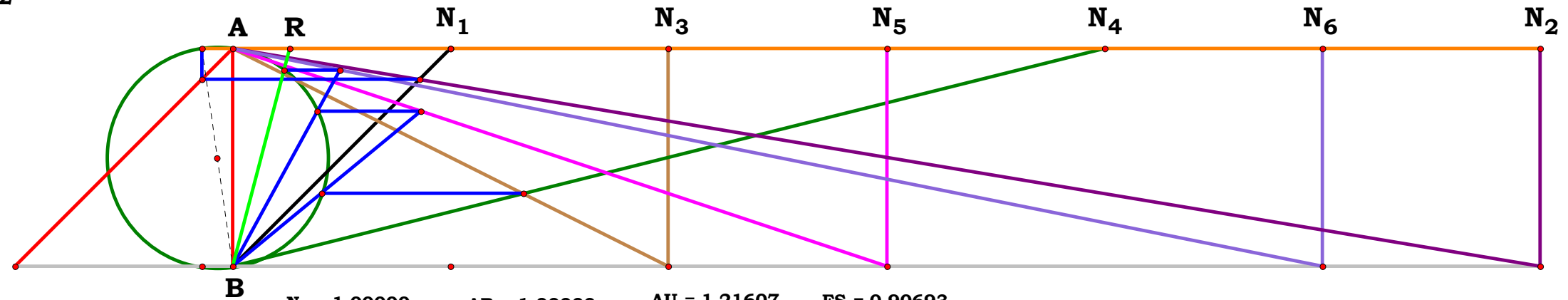
$$AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

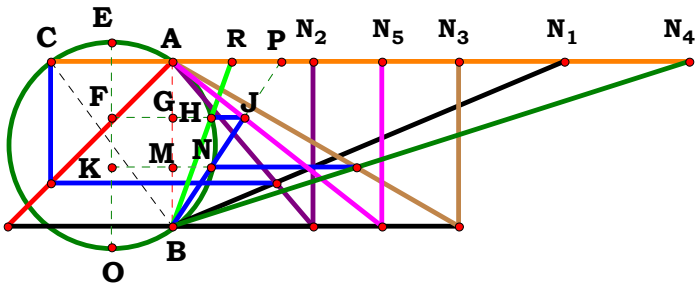
$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$AR := \frac{GH \cdot AB}{BG} \quad AR = 0.20285$$

Definitions.



$N_1 = 1.00000$	$AB = 1.00000$	$AU = 1.21607$	$FS = 0.90693$
$N_2 = 6.00000$	$AC = 0.14286$	$BM = 0.71156$	$FH = 0.30597$
$N_3 = 2.00000$	$BP = 0.33333$	$KS = 0.71664$	$GH = 0.23454$
$N_4 = 4.00000$	$ES = 1.01015$	$KN = 0.45863$	$R - \frac{GH \cdot AB}{BG} = 0.00000$
$N_5 = 3.00000$	$OS = 0.33841$	$MN = 0.38720$	
$N_6 = 5.00000$	$OQ = 0.47679$	$AT = 0.54416$	
$R = 0.26007$	$PQ = 0.40536$	$BG = 0.90185$	



$N_1 = 2.37042$
 $N_2 = 0.84976$
 $N_3 = 1.73589$
 $N_4 = 3.12828$
 $N_5 = 1.26884$
 $R = 0.35378$

Unit. $AB := 1$ Given. $N_1 := 2.37042$ $N_2 := .84976$ $N_3 := 1.73598$
 $N_4 := 3.12828$ $N_5 := 1.26884$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

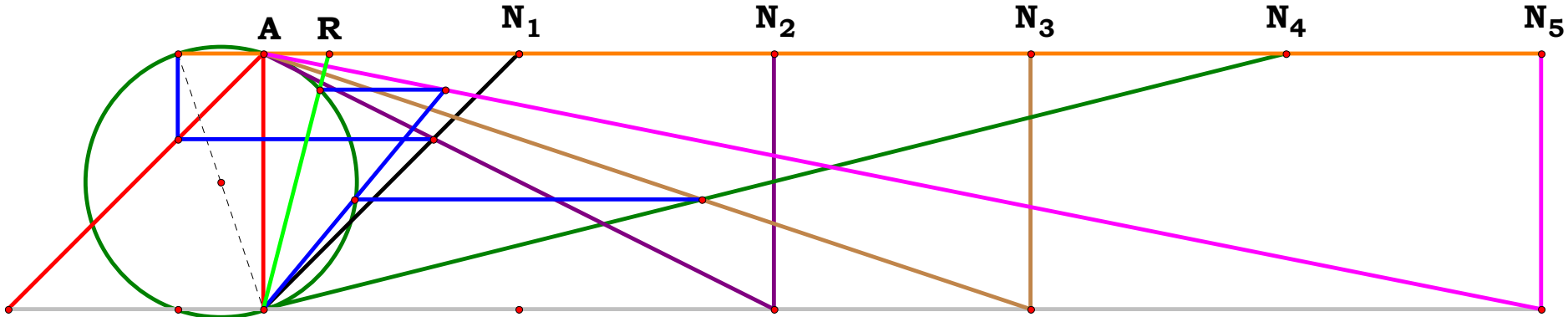
$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$$

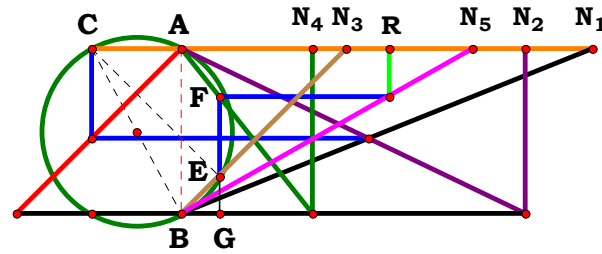
$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{BG}$$

$$AR = 0.353777$$

Definitions.



$N_1 = 1.00000$	$AB = 1.00000$	$MN = 0.35552$	$R - \frac{GH \cdot AB}{BG} = 0.00000$
$N_2 = 2.00000$	$AC = 0.33333$	$AP = 0.82954$	
$N_3 = 3.00000$	$BM = 0.42857$	$BG = 0.85770$	
$N_4 = 4.00000$	$EO = 1.05409$	$FO = 0.88475$	
$N_5 = 5.00000$	$KO = 0.45562$	$FH = 0.38708$	
$R = 0.25698$	$KN = 0.52218$	$GH = 0.22041$	



$N_1 = 2.48665$
 $N_2 = 2.07985$
 $N_3 = 0.99977$
 $N_4 = 0.79401$
 $N_5 = 1.76281$
 $R = 1.25708$

Unit. $AB := 1$ Given. $N_1 := 2.48665$ $N_2 := 2.07985$ $N_3 := .99977$
 $N_4 := .79401$ $N_5 := 1.76281$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{AB \cdot (N_4 - BG)}{N_4}$$

$$R := \frac{N_5 \cdot FG}{AB} \quad R = 1.257081$$

Definitions.

$$R - \frac{N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + AC \cdot N_3^2)}{N_4 \cdot (N_3^2 + 1)} = 0$$

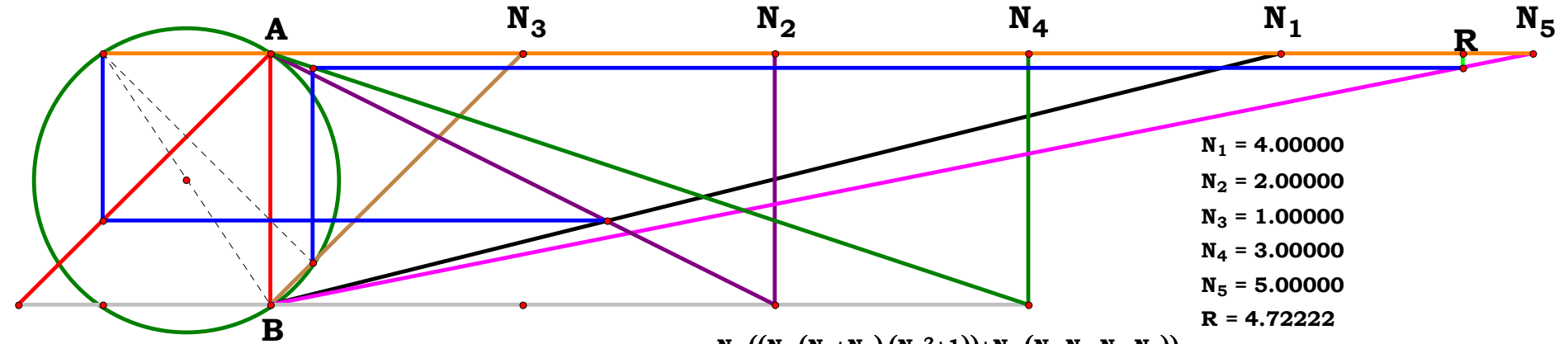
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) + N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_2 - N_1)}{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u^3 \cdot (A + B) + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)}{E \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)}{Y \cdot p \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)} = 0$$

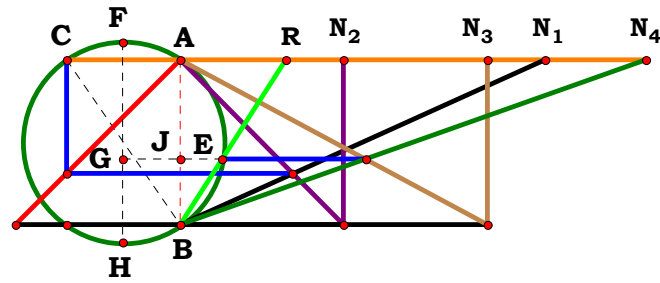


$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 3.00000$
 $N_5 = 5.00000$
 $R = 4.72222$

$$\frac{N_5 \cdot ((N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)) + N_3 \cdot (N_1 \cdot N_3 - N_2 - N_1))}{(N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1))} - R = 0.00000$$



4RST3AB3R8



$N_1 = 2.20577$
 $N_2 = 0.98536$
 $N_3 = 1.86181$
 $N_4 = 2.81833$
 $R = 0.63739$

Unit. $AB := 1$ Given. $N_1 := 2.20577$ $N_2 := .98536$ $N_3 := 1.86181$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $N_4 := 2.81833$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

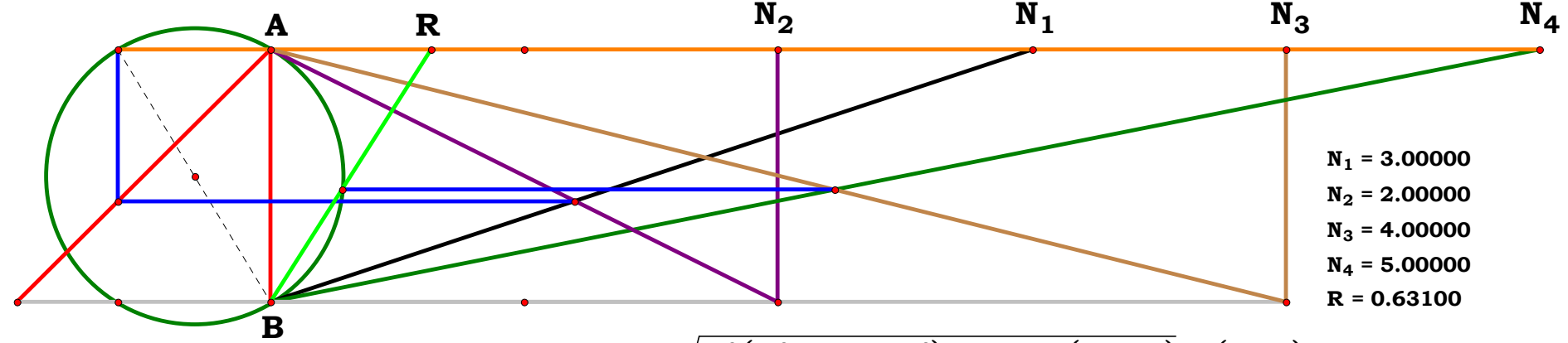
Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BJ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \quad GH := BJ + \frac{FH - AB}{2}$$

$$GE := \sqrt{GH \cdot (FH - GH)} \quad JE := GE - \frac{AC}{2}$$

$$R := \frac{JE \cdot AB}{BJ} \quad R = 0.637387$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 0.63100$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

$$R - \frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1 + N_2) - N_1 \cdot (N_3 + N_4)}}{2 \cdot (N_1 + N_2) \cdot N_3} = 0$$

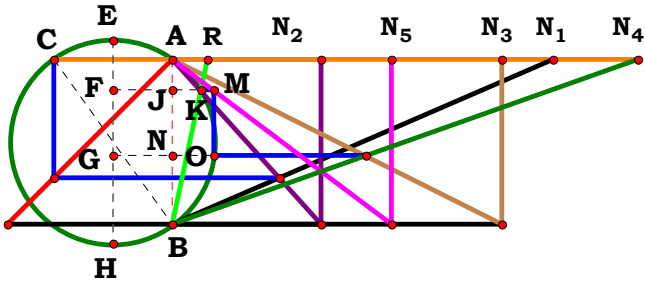
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{2 \cdot D \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot (Y^2 \cdot p^2 + 6 \cdot Y \cdot Z \cdot o \cdot p + Z^2 \cdot o^2) + 4 \cdot X \cdot Y \cdot Z \cdot m \cdot o \cdot p \cdot (2 \cdot W \cdot n + X \cdot m) - W \cdot n \cdot (Y \cdot p + Z \cdot o)}}{2 \cdot Y \cdot p \cdot (W \cdot n + X \cdot m)} = 0$$

$$\frac{\sqrt{N_1^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1 + N_2) - N_1 \cdot (N_3 + N_4)}}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$



$N_1 = 2.30262$
 $N_2 = 0.89818$
 $N_3 = 1.99741$
 $N_4 = 2.81833$
 $N_5 = 1.32695$
 $R = 0.21169$

Unit. $AB := 1$ Given. $N_1 := 2.30262$ $N_2 := .89818$ $N_3 := 1.99741$
 $N_4 := 2.81833$ $N_5 := 1.32695$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

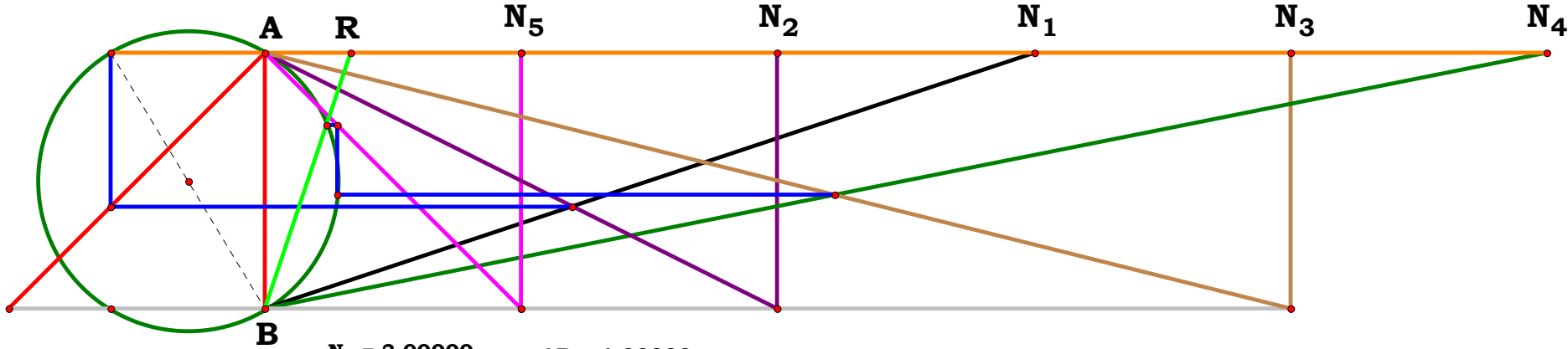
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

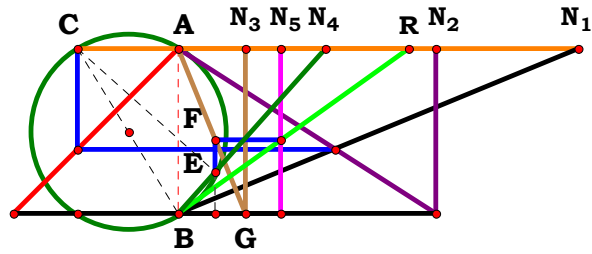
$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$AR := \frac{JK \cdot AB}{BK} \quad AR = 0.211686$$



$N_1 = 3.00000$	$AB = 1.00000$	$NO = 0.28044$	$R - \frac{JK \cdot AB}{BK} = 0.00000$
$N_2 = 2.00000$	$AC = 0.60000$	$BK = 0.71956$	
$N_3 = 4.00000$	$EH = 1.16619$	$FH = 0.80265$	
$N_4 = 5.00000$	$BN = 0.44444$	$FK = 0.54018$	
$N_5 = 1.00000$	$GH = 0.52754$	$JK = 0.24018$	
$R = 0.33379$	$GO = 0.58044$		



$N_1 = 2.41885$
 $N_2 = 1.55682$
 $N_3 = 0.40894$
 $N_4 = 0.89086$
 $N_5 = 0.61989$
 $R = 1.39694$

Unit. $AB := 1$ Given. $N_1 := 2.41885$ $N_2 := 1.55682$ $N_3 := .40894$ $N_4 := .89086$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .61989$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BG := N_4 \cdot \frac{(BN_4 - EN_4)}{BN_4} \quad FG := AB \cdot \frac{(N_3 - BG)}{N_3}$$

$$R := \frac{N_5 \cdot AB}{FG} \quad R = 1.396942$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2} = 0$$

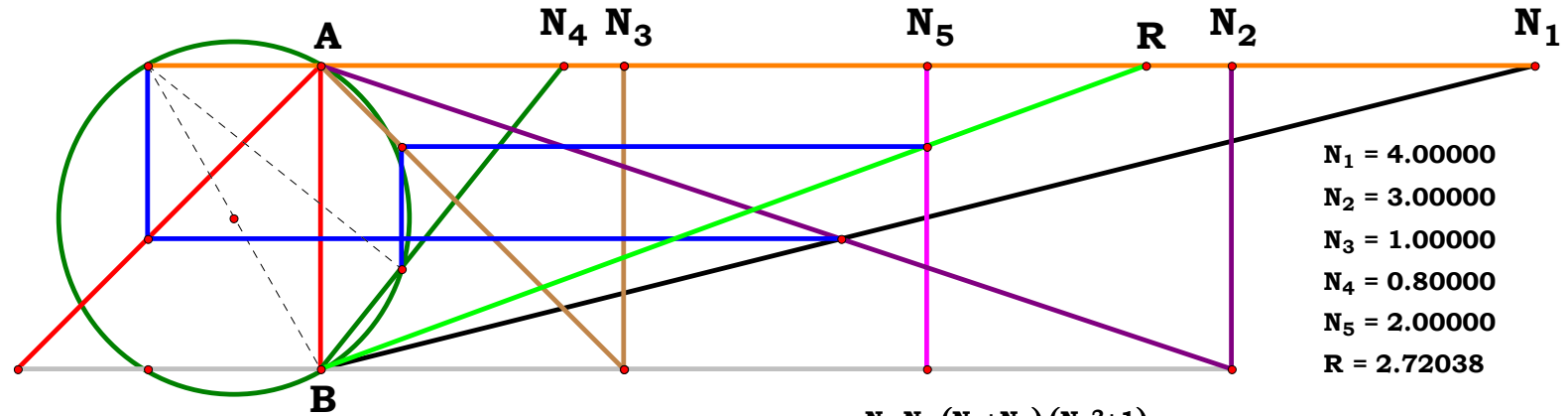
$$R - \frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_1 \cdot (N_4^2 - N_4 + N_3) + N_2 \cdot (N_3 - N_4) + N_3 \cdot N_4^2 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{E \cdot \left[(D^2 - C \cdot D + N_u^2) \cdot (A + B) + B \cdot C \cdot N_u \right]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (Y^2 + o^2)}{p \cdot \left[X \cdot (Y^2 + o^2) \cdot (V \cdot m + W \cdot l) + Y \cdot n \cdot (V \cdot Y \cdot m - V \cdot m \cdot o - W \cdot l \cdot o) \right]} = 0$$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.80000$
 $N_5 = 2.00000$
 $R = 2.72038$

$$\frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_1 \cdot ((N_4^2 - N_4) + N_3) + N_2 \cdot (N_3 - N_4) + N_3 \cdot N_4^2 \cdot (N_1 + N_2)} - R = 0.00000$$



Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EG := \frac{N_3 \cdot AB}{N_3 + N_4} \quad HM := \sqrt{AB^2 + AC^2}$$

$$JM := EG + \frac{HM - AB}{2} \quad JE := \sqrt{JM \cdot (HM - JM)}$$

$$BG := JE - \frac{AC}{2} \quad FG := \frac{AB \cdot (N_5 - BG)}{N_5}$$

$$R := \frac{N_6 \cdot AB}{FG} \quad R = 2.200343$$

Definitions.

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

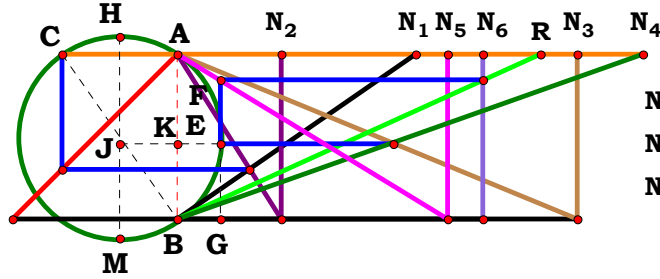
$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot (N_1 + N_2) \cdot (N_3 + N_4)}{N_1 \cdot (N_3 + N_4) + 2 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 + N_2) - \sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{F \cdot \left[(C + D) \cdot [B \cdot E + 2 \cdot N_u \cdot (A + B)] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot (U \cdot l + V \cdot k) \cdot (W \cdot n + X \cdot m)}{p \cdot \left[2 \cdot Y \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l + V \cdot k) + U \cdot l \cdot o \cdot (W \cdot n + X \cdot m) - o \cdot \sqrt{U^2 \cdot W \cdot l^2 \cdot n \cdot (W \cdot n + 6 \cdot X \cdot m) + U^2 \cdot X^2 \cdot l^2 \cdot m^2 + 4 \cdot V \cdot W \cdot X \cdot k \cdot m \cdot n \cdot (2 \cdot U \cdot l + V \cdot k)} \right]} = 0$$



$$\begin{aligned} N_1 &= 1.44059 & N_4 &= 2.81833 \\ N_2 &= 0.62698 & N_5 &= 1.63690 \\ N_3 &= 2.42358 & N_6 &= 1.85104 \\ R &= 2.20035 \end{aligned}$$

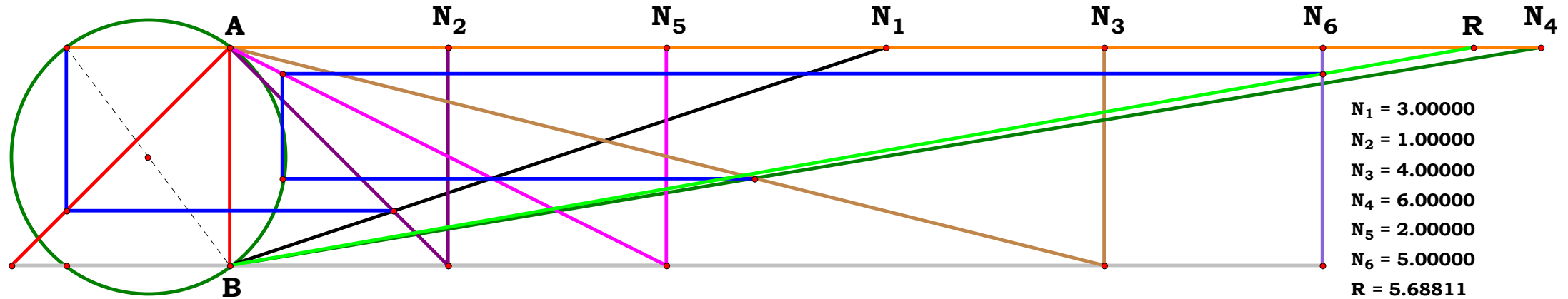
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.44059 \quad N_2 := .62698 \quad N_3 := 2.42358$$

$$N_4 := 2.81833 \quad N_5 := 1.63690 \quad N_6 := 1.85104$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

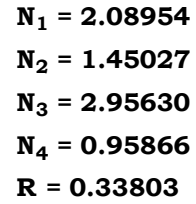
$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

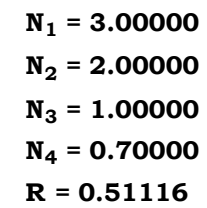


$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 1.00000 \\ N_3 &= 4.00000 \\ N_4 &= 6.00000 \\ N_5 &= 2.00000 \\ N_6 &= 5.00000 \\ R &= 5.68811 \end{aligned}$$

$$\frac{2 \cdot N_5 \cdot N_6 \cdot (N_1 + N_2) \cdot (N_3 + N_4)}{(N_1 \cdot (N_3 + N_4) + 2 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 + N_2)) - \sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2)}} - R = 0.00000$$


$$N_4 := .95866$$

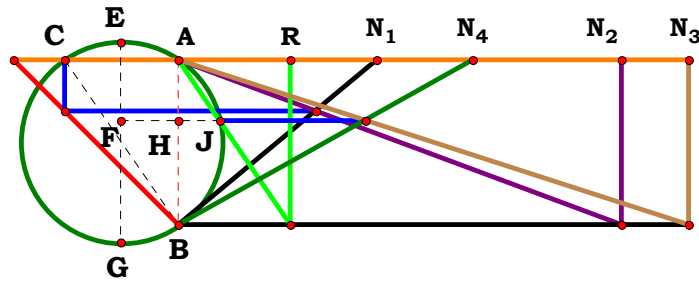
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{FG} := \frac{\mathbf{AB} \cdot (\mathbf{N}_3 - \mathbf{BG})}{\mathbf{N}_3} \quad \mathbf{R} := \frac{\mathbf{BG} \cdot \mathbf{AB}}{\mathbf{FG}} \quad \mathbf{R} = 0.338032$$
$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{p})}{\mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{Z} - \mathbf{o} \cdot \mathbf{p}) \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) + \mathbf{Y} \cdot \mathbf{p}^2 \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) + \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{m} \cdot \mathbf{o}} = 0$$


$$\frac{N_3 \cdot N_4 \cdot ((N_1 + N_2) - N_2 \cdot N_4)}{N_4 \cdot (N_2 \cdot N_4 - N_2 \cdot N_1) + N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)} \cdot R = 0.00000$$



4RST3AB4R1



$N_1 = 1.19844$
 $N_2 = 2.68037$
 $N_3 = 3.09190$
 $N_4 = 1.78196$
 $R = 0.67615$

Unit. $AB := 1$ Given. $N_1 := 1.19844$ $N_2 := 2.68037$ $N_3 := 3.09190$

$N_4 := 1.78196$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad AH := \frac{AB \cdot N_4}{N_4 + N_3}$$

$$EG := \sqrt{AB^2 + AC^2} \quad EF := AH + \frac{(EG - AB)}{2}$$

$$FJ := \sqrt{EF \cdot (EG - EF)} \quad HJ := FJ - \frac{AC}{2}$$

$$AR := \frac{HJ \cdot AB}{AH} \quad AR = 0.676144$$

Definitions.

$$AR - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

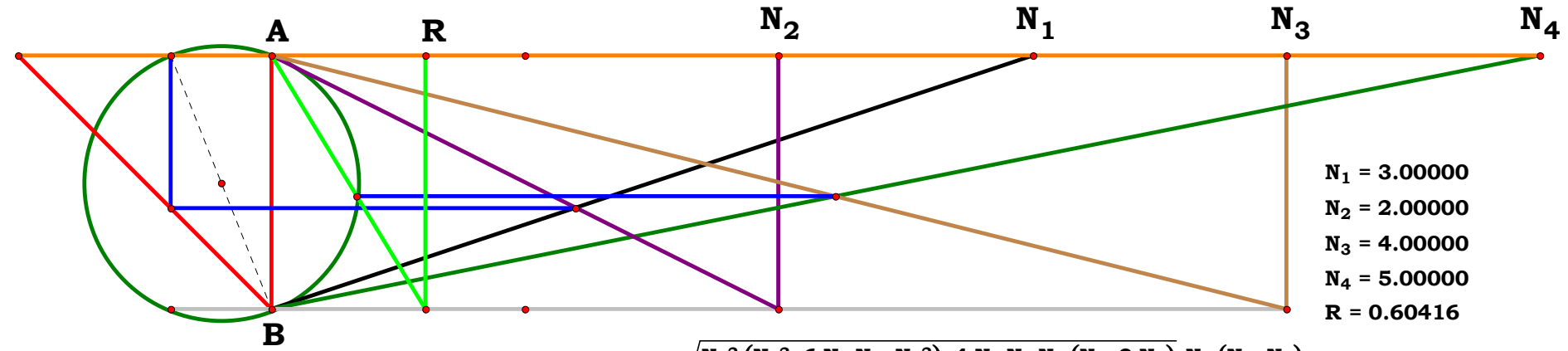
$$AR - \frac{\sqrt{4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 + 2 \cdot N_2) + N_2^2 \cdot N_3 \cdot (N_3 + 6 \cdot N_4) + N_2^2 \cdot N_4^2} - N_2 \cdot (N_3 + N_4)}{2 \cdot (N_1 + N_2) \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$AR - \frac{\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D} - A \cdot (C + D)}{2 \cdot C \cdot (A + B)} = 0$$

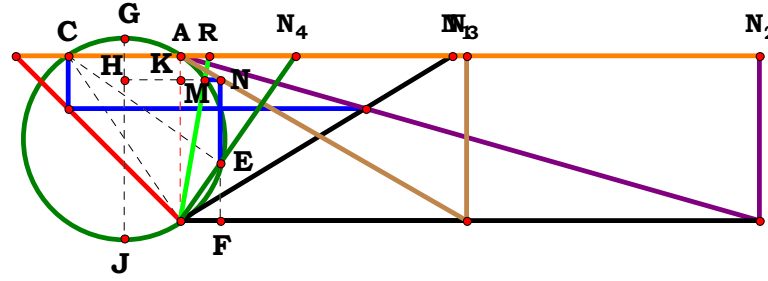
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$AR - \frac{\sqrt{X^2 \cdot m^2 \cdot (Y^2 \cdot p^2 + Z^2 \cdot o^2) + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (2 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2)} - X \cdot m \cdot (Y \cdot p + Z \cdot o)}{2 \cdot Z \cdot o \cdot (W \cdot n + X \cdot m)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 0.60416$

$$\frac{\sqrt{N_2^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + 4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 + 2 \cdot N_2)} - N_2 \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot (N_1 + N_2)} - R = 0.00000$$



$N_1 = 1.64399$
 $N_2 = 3.50366$
 $N_3 = 1.73589$
 $N_4 = 0.69715$
 $R = 0.17156$

Unit. $AB := 1$ Given. $N_1 := 1.64399$ $N_2 := 3.50366$ $N_3 := 1.73589$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $N_4 := .69715$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

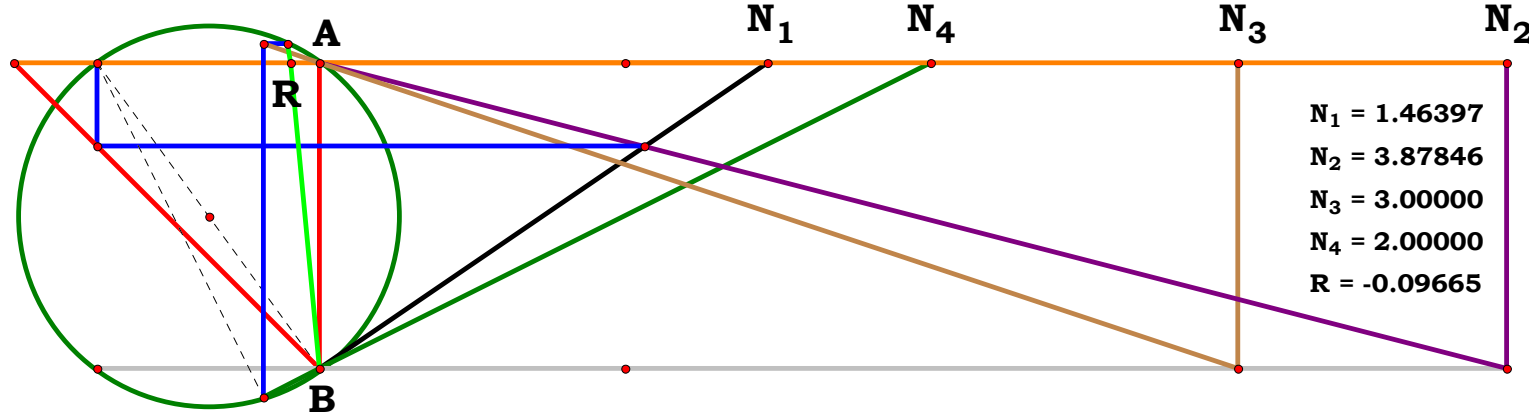
$$AC := \frac{N_2}{N_1 + N_2} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BF := \frac{N_4 \cdot (BN_4 - EN_4)}{BN_4} \quad AK := \frac{AB \cdot BF}{N_3}$$

$$GJ := \sqrt{AB^2 + AC^2} \quad GH := AK + \frac{GJ - AB}{2}$$

$$HM := \sqrt{GH \cdot (GJ - GH)} \quad KM := HM - \frac{AC}{2}$$

$$R := \frac{KM \cdot AB}{AB - AK} \quad R = 0.171558$$



$N_1 = 1.46397$
 $N_2 = 3.87846$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $R = -0.09665$

$$\frac{\sqrt{((N_2 \cdot N_3) \cdot (N_4^2 + 1))^2 \cdot 4 \cdot N_4 \cdot (N_4 \cdot ((N_1 + N_2) - N_2 \cdot N_4) - N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)) \cdot ((N_1 + N_2) - N_2 \cdot N_4) - (N_2 \cdot N_3) \cdot (N_4^2 + 1)}}{(2 \cdot (N_2 \cdot ((N_4^2 - N_4) + N_3) + N_1 \cdot (N_3 - N_4) + N_3 \cdot N_4^2 \cdot (N_1 + N_2)))} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot N_3^2 - 4 \cdot N_4^2 - 4 \cdot AC \cdot N_4^3 \cdot (AC \cdot N_4 - 2) + 4 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) - AC \cdot N_3 \cdot N_4^2 \cdot (4 \cdot N_4^2 - 2 \cdot AC \cdot N_3 - AC \cdot N_3 \cdot N_4^2 + 4) - AC \cdot N_3 \cdot (N_4^2 + 1)}}{2 \cdot (N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2)} = 0$$

$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_4^2 + 1)^2 - 4 \cdot N_4 \cdot [N_4 \cdot (N_1 + N_2 - N_2 \cdot N_4) - N_3 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)] \cdot (N_1 + N_2 - N_2 \cdot N_4) - N_2 \cdot N_3 \cdot (N_4^2 + 1)}}{2 \cdot (N_2 \cdot N_4^2 + N_1 \cdot N_3 - N_1 \cdot N_4 + N_2 \cdot N_3 - N_2 \cdot N_4 + N_1 \cdot N_3 \cdot N_4^2 + N_2 \cdot N_3 \cdot N_4^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]}}{2 \cdot [C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - (D^2 + N_u^2) \cdot (A + B)]} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot X^2 \cdot m^2 \cdot (Z^2 + p^2)^2 + 4 \cdot Y \cdot Z \cdot o \cdot (Z^2 + p^2) \cdot (W \cdot n + X \cdot m) \cdot (W \cdot n \cdot p - X \cdot Z \cdot m + X \cdot m \cdot p) - 4 \cdot Z^2 \cdot o^2 \cdot (W \cdot n \cdot p - X \cdot Z \cdot m + X \cdot m \cdot p)^2 - X \cdot Y \cdot m \cdot (Z^2 + p^2)}}{2 \cdot (W \cdot Y \cdot Z^2 \cdot n + X \cdot Y \cdot Z^2 \cdot m + W \cdot Y \cdot n \cdot p^2 + X \cdot Y \cdot m \cdot p^2 + X \cdot Z^2 \cdot m \cdot o - W \cdot Z \cdot n \cdot o \cdot p - X \cdot Z \cdot m \cdot o \cdot p)} = 0$$



4RST3AB4R3

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \quad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

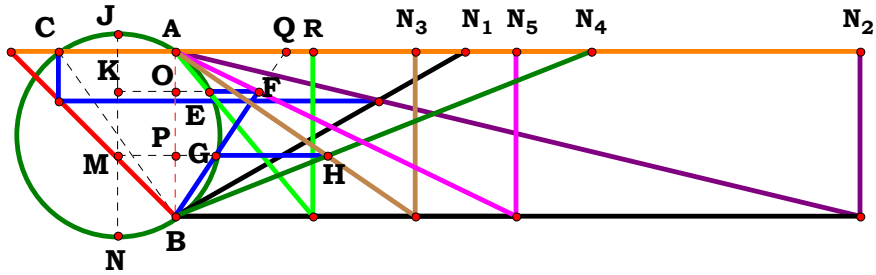
$$GM := \sqrt{JM \cdot (JN - JM)} \quad PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP} \quad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2} \quad EK := \sqrt{JK \cdot (JN - JK)}$$

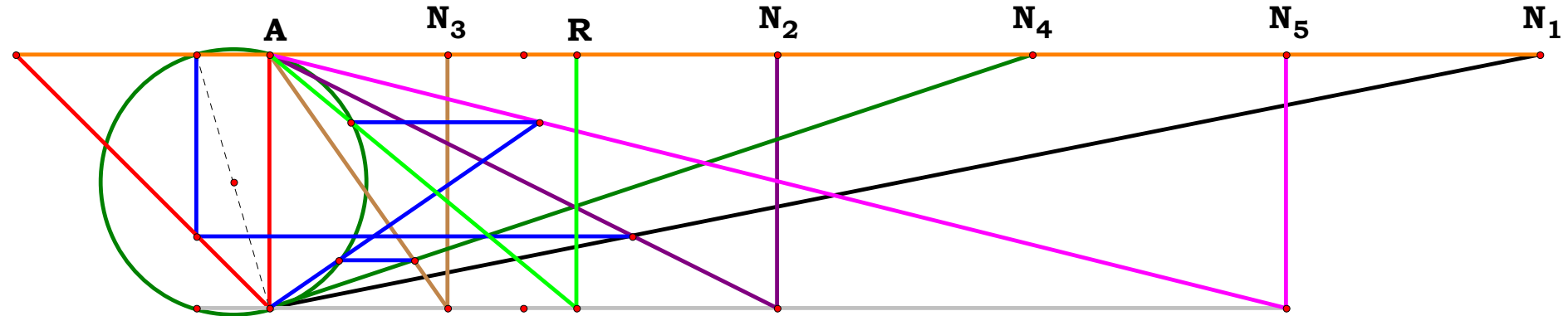
$$EO := EK - \frac{AC}{2} \quad AR := \frac{EO \cdot AB}{AO}$$

$$AR = 0.832823$$

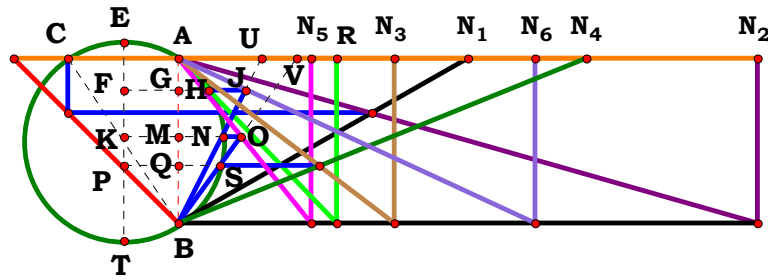


$N_1 = 1.75053$
 $N_2 = 4.14292$
 $N_3 = 1.45500$
 $N_4 = 2.51808$
 $N_5 = 2.06307$
 $R = 0.83282$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 4.14292$ $N_3 := 1.45500$
 $N_4 := 2.51808$ $N_5 := 2.06307$



$N_1 = 5.00000$	$AB = 1.00000$	$AQ = 1.44851$
$N_2 = 2.00000$	$AC = 0.28571$	$AO = 0.26585$
$N_3 = 0.70000$	$BP = 0.18919$	$JK = 0.28586$
$N_4 = 3.00000$	$JN = 1.04002$	$EK = 0.46431$
$N_5 = 4.00000$	$JM = 0.83082$	$EO = 0.32145$
$R = 1.20913$	$GM = 0.41690$	$R - \frac{EO \cdot AB}{AO} = 0.00000$
	$PG = 0.27404$	



$N_1 = 1.75053$
 $N_2 = 3.50366$
 $N_3 = 1.30972$
 $N_4 = 2.46965$

$N_5 = 0.80392$
 $N_6 = 2.15993$
 $R = 0.95638$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 3.50366$ $N_3 := 1.30972$
 $N_4 := 2.46965$ $N_5 := .80392$ $N_6 := 2.15993$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ}$$

$$BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

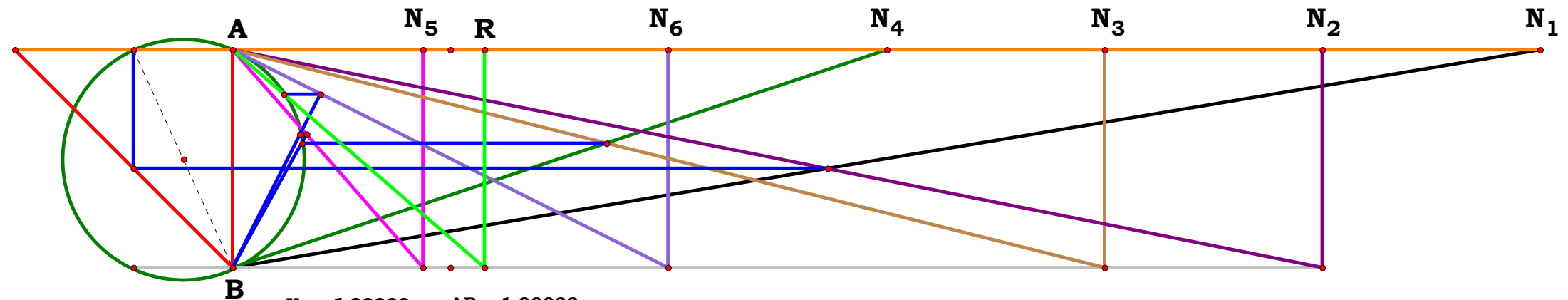
$$BG := \frac{AB \cdot N_6}{AU + N_6} \quad AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{AG}$$

$$AR = 0.956384$$

Definitions.

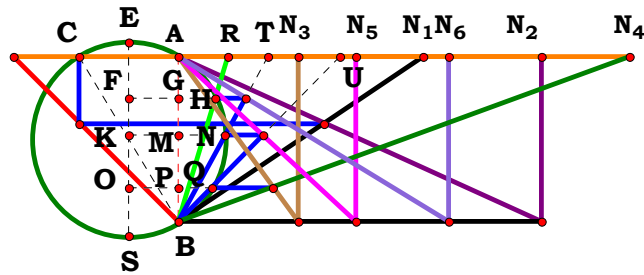


$N_1 = 6.00000$
 $N_2 = 5.00000$
 $N_3 = 4.00000$
 $N_4 = 3.00000$
 $N_5 = 0.87451$
 $N_6 = 2.00000$
 $R = 1.15772$

$AB = 1.00000$
 $AC = 0.45455$
 $BQ = 0.57143$
 $ET = 1.09846$
 $EP = 0.47780$
 $PS = 0.54456$
 $QS = 0.31729$

$AV = 0.55526$
 $BM = 0.61164$
 $KT = 0.66087$
 $KN = 0.53776$
 $MN = 0.31049$
 $AU = 0.50763$
 $BG = 0.79756$

$AG = 0.20244$
 $EF = 0.25166$
 $FH = 0.46164$
 $GH = 0.23436$
 $R - \frac{GH \cdot AB}{AG} = 0.00000$

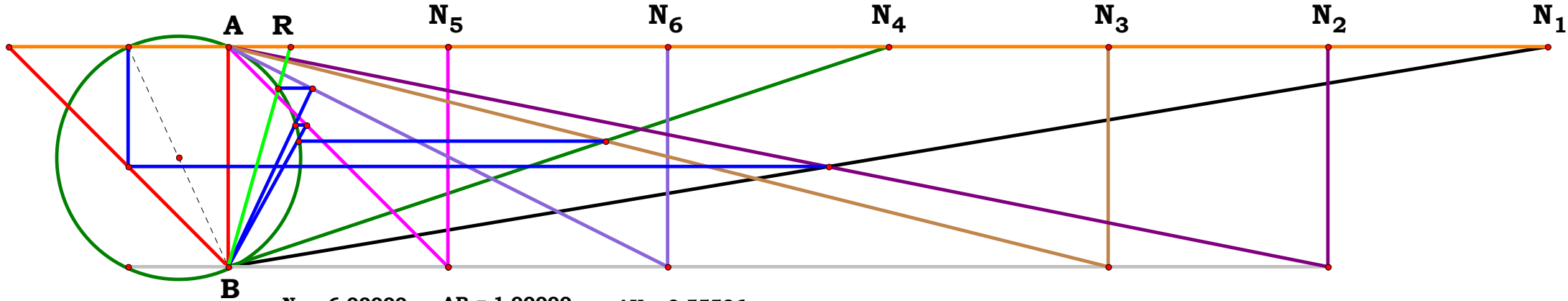


$N_1 = 1.47933$ $N_5 = 1.07512$
 $N_2 = 2.19608$ $N_6 = 1.63690$
 $N_3 = 0.72857$ $R = 0.30175$
 $N_4 = 2.73116$

Unit. $AB := 1$ Given. $N_1 := 1.47933$ $N_2 := 2.19608$ $N_3 := .72857$
 $N_4 := 2.73116$ $N_5 := 1.07512$ $N_6 := 1.63690$

Descriptions.

$$\begin{aligned}
 AC &:= \frac{N_2}{N_1 + N_2} & BP &:= \frac{AB \cdot N_3}{N_3 + N_4} \\
 ES &:= \sqrt{AB^2 + AC^2} & OS &:= BP + \frac{ES - AB}{2} \\
 OQ &:= \sqrt{OS \cdot (ES - OS)} & PQ &:= OQ - \frac{AC}{2} \\
 AU &:= \frac{PQ \cdot AB}{BP} \\
 BM &:= \frac{AB \cdot N_5}{N_5 + AU} \\
 KS &:= BM + \frac{ES - AB}{2} \\
 KN &:= \sqrt{KS \cdot (ES - KS)} \\
 MN &:= KN - \frac{AC}{2} \\
 AT &:= \frac{MN \cdot AB}{BM} \\
 BG &:= \frac{N_6 \cdot AB}{N_6 + AT} & FS &:= BG + \frac{ES - AB}{2} \\
 FH &:= \sqrt{FS \cdot (ES - FS)} & GH &:= FH - \frac{AC}{2} \\
 AR &:= \frac{GH \cdot AB}{BG} & AR &= 0.301751
 \end{aligned}$$

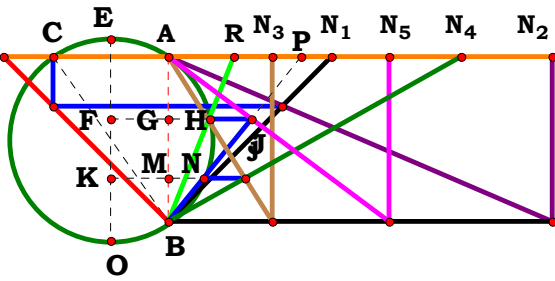


$N_1 = 6.00000$	$AB = 1.00000$	$AU = 0.55526$	$FS = 0.85853$
$N_2 = 5.00000$	$AC = 0.45455$	$BM = 0.64298$	$FH = 0.45386$
$N_3 = 4.00000$	$BP = 0.57143$	$KS = 0.69221$	$GH = 0.22659$
$N_4 = 3.00000$	$ES = 1.09846$	$KN = 0.53029$	$R \cdot \frac{GH \cdot AB}{BG} = 0.00000$
$N_5 = 1.00000$	$OS = 0.62066$	$MN = 0.30302$	
$N_6 = 2.00000$	$OQ = 0.54456$	$AT = 0.47127$	
$R = 0.27998$	$PQ = 0.31729$	$BG = 0.80930$	

Definitions.



4RST3AB4R6



$N_1 = 0.98536$
 $N_2 = 2.32200$
 $N_3 = 0.63171$
 $N_4 = 1.77227$
 $N_5 = 1.33664$
 $R = 0.39643$

Unit. $AB := 1$ Given. $N_1 := .98536$ $N_2 := 2.3220$ $N_3 := .63171$
 $N_4 := 1.77227$ $N_5 := 1.33664$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

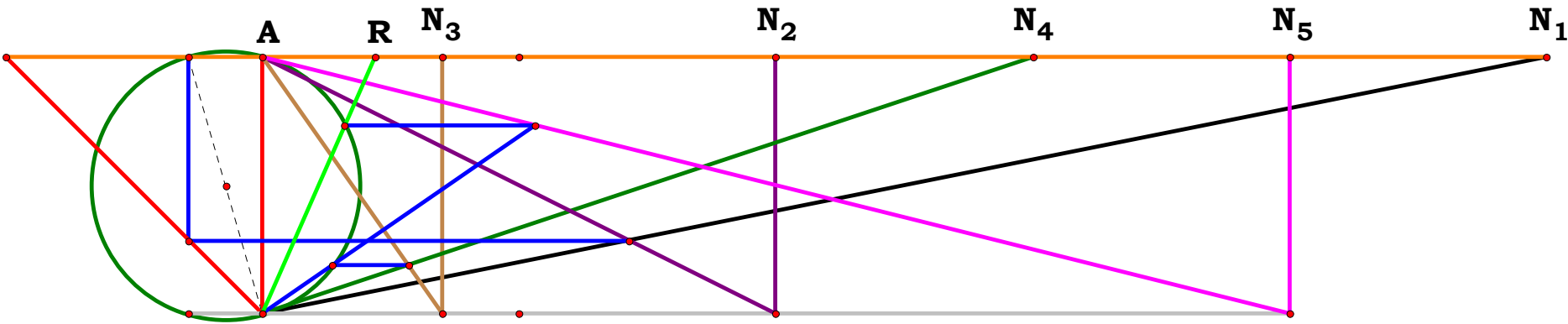
$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$$

$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{BG}$$

$AR = 0.396433$

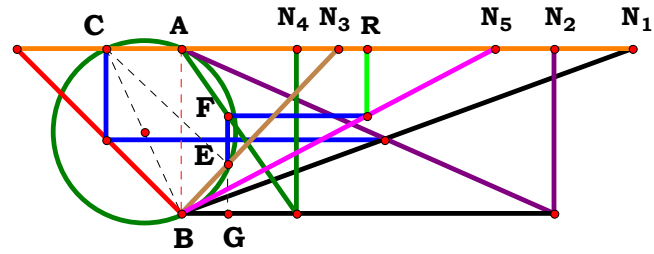


$N_1 = 5.00000$	$AB = 1.00000$	$AP = 1.44851$
$N_2 = 2.00000$	$AC = 0.28571$	$BG = 0.73415$
$N_3 = 0.70000$	$BM = 0.18919$	$FO = 0.75415$
$N_4 = 3.00000$	$EO = 1.04002$	$FH = 0.46431$
$N_5 = 4.00000$	$KO = 0.20920$	$GH = 0.32145$
$R = 0.43786$	$KN = 0.41690$	$R - \frac{GH \cdot AB}{BG} = 0.00000$
	$MN = 0.27404$	

Definitions.



4RST3AB4R7



$N_1 = 2.72880$
 $N_2 = 2.25419$
 $N_3 = 0.95134$
 $N_4 = 0.69715$
 $N_5 = 1.89841$
 $R = 1.12379$

Unit. $AB := 1$ Given. $N_1 := 2.72880$ $N_2 := 2.25419$ $N_3 := .95134$ $N_4 := .69715$
 $N_5 := 1.89841$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{AB \cdot (N_4 - BG)}{N_4}$$

$$R := \frac{N_5 \cdot FG}{AB} \quad R = 1.123786$$

Definitions.

$$R - \frac{N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + AC \cdot N_3^2)}{N_4 \cdot (N_3^2 + 1)} = 0$$

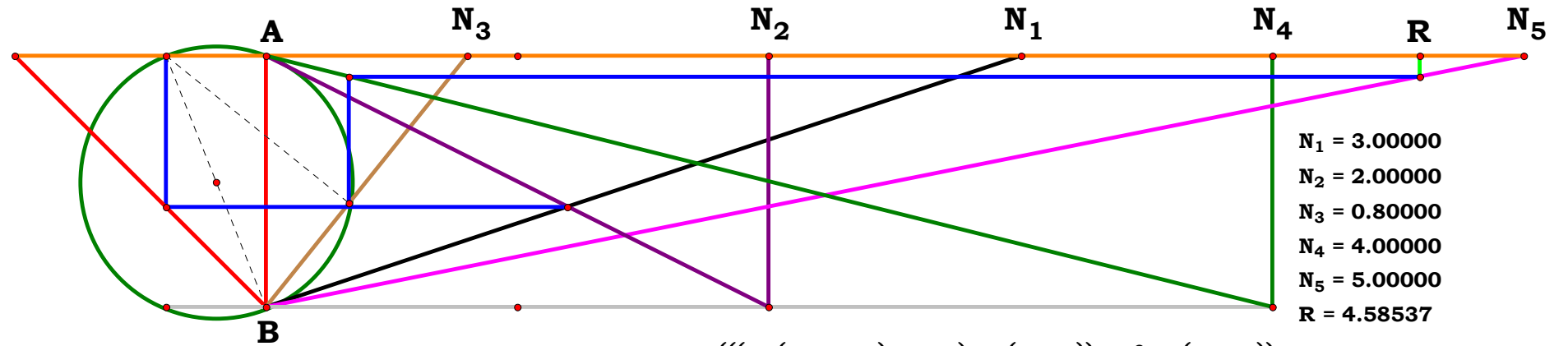
$$R - \frac{N_5 \cdot [N_3 \cdot (N_2 \cdot N_3 - N_1) + N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4) + N_3^2 \cdot N_4 \cdot (N_1 + N_2)]}{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{[N_u \cdot (C^2 - D \cdot C + N_u^2)] \cdot (A + B) + A \cdot D \cdot N_u^2}{E \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

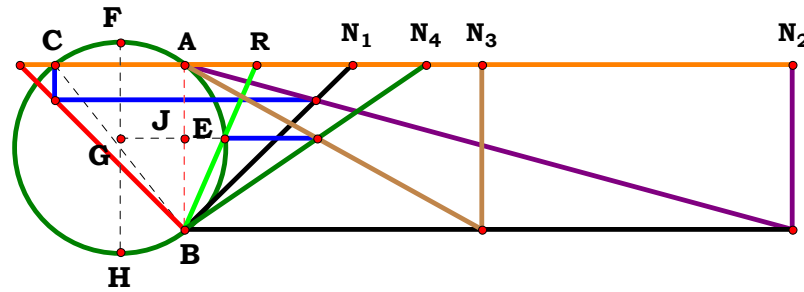
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (Y \cdot X^2 - o \cdot X \cdot n + Y \cdot n^2) \cdot (V \cdot m + W \cdot l) + W \cdot X^2 \cdot Z \cdot l \cdot o}{Y \cdot p \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.80000$
 $N_4 = 4.00000$
 $N_5 = 5.00000$
 $R = 4.58537$

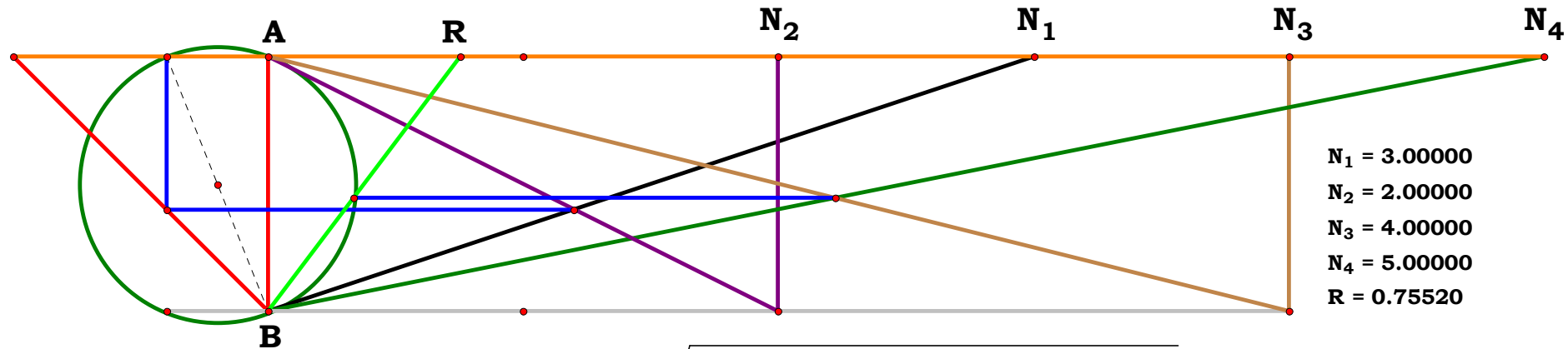
$$\frac{N_5 \cdot (((N_3 \cdot (N_2 \cdot N_3 - N_1) + N_1 \cdot N_4) - N_2 \cdot (N_3 - N_4)) + N_3^2 \cdot N_4 \cdot (N_1 + N_2))}{N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$


$$\begin{array}{l} \text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.01441 \quad N_2 := 3.67800 \quad N_3 := 1.8036 \\ N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad N_4 := 1.46232 \\ W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4} \end{array}$$
$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BJ} := \frac{\mathbf{AB} \cdot \mathbf{N}_3}{\mathbf{N}_3 + \mathbf{N}_4}$$

$$\mathbf{FH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \qquad \mathbf{GH} := \mathbf{BJ} + \frac{\mathbf{FH} - \mathbf{AB}}{2}$$

$$\mathbf{GE} := \sqrt{\mathbf{GH} \cdot (\mathbf{FH} - \mathbf{GH})} \quad \mathbf{JE} := \mathbf{GE} - \frac{\mathbf{AC}}{2}$$

$$R := \frac{JE \cdot AB}{BJ} \quad R = 0.436811$$



N₁ = 3.00000
N₂ = 2.00000
N₃ = 4.00000
N₄ = 5.00000
R = 0.75520

$$\frac{\sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2)} \cdot N_2 \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

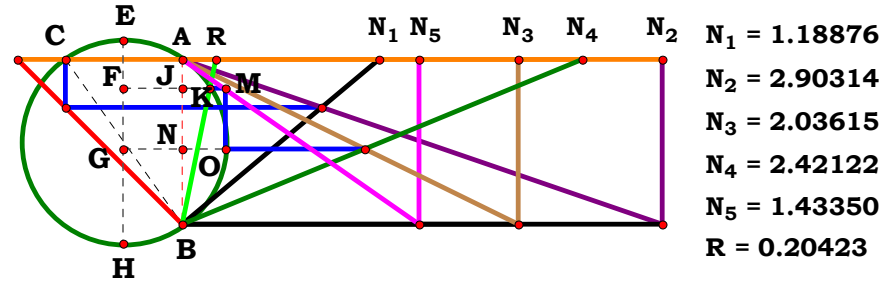
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2^2 \cdot (\mathbf{N}_3^2 + \mathbf{N}_4^2) + 2 \cdot \mathbf{N}_3 \cdot \mathbf{N}_4 \cdot (2 \cdot \mathbf{N}_1^2 + 4 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 + 3 \cdot \mathbf{N}_2^2)} - \mathbf{N}_2 \cdot (\mathbf{N}_3 + \mathbf{N}_4)}{2 \cdot (\mathbf{N}_1 + \mathbf{N}_2) \cdot \mathbf{N}_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{D}^2) + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (3 \cdot \mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2)} - \mathbf{A} \cdot (\mathbf{C} + \mathbf{D})}{2 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{X}^2 \cdot \mathbf{m}^2 \cdot (\mathbf{Y}^2 \cdot \mathbf{p}^2 + \mathbf{Z}^2 \cdot \mathbf{o}^2)} + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{p} \cdot (2 \cdot \mathbf{W}^2 \cdot \mathbf{n}^2 + 4 \cdot \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{n} + 3 \cdot \mathbf{X}^2 \cdot \mathbf{m}^2)} - \mathbf{X} \cdot \mathbf{m} \cdot (\mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{o})}{2 \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m})} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.18876$ $N_2 := 2.90314$ $N_3 := 2.03615$
 $N_4 := 2.42122$ $N_5 := 1.4335$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

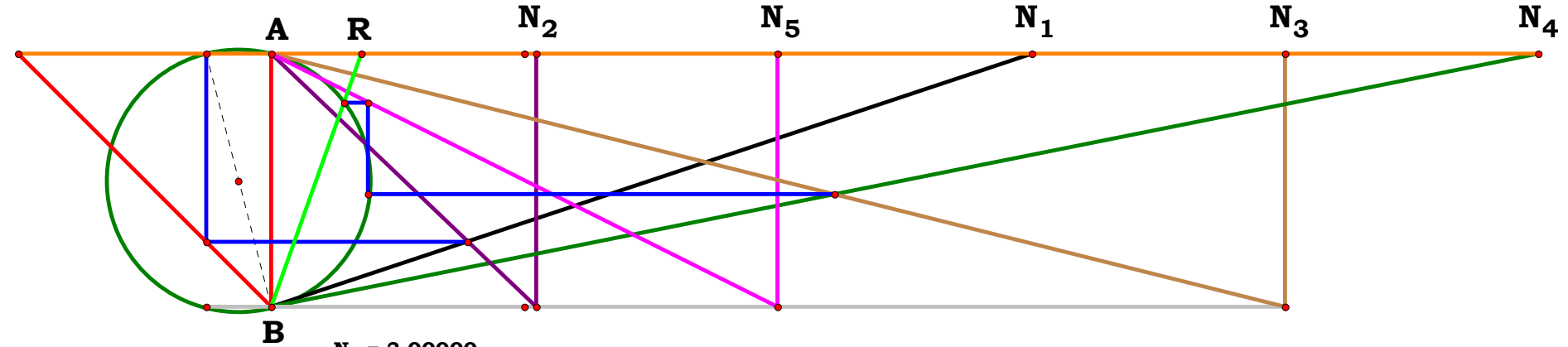
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

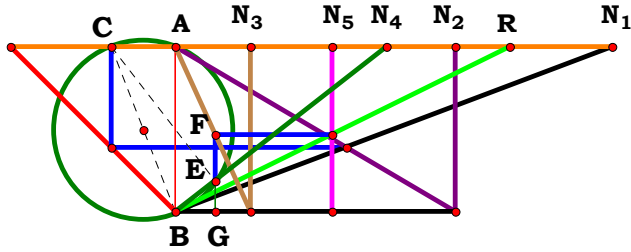
$$AR := \frac{JK \cdot AB}{BK} \quad AR = 0.204231$$



Definitions.

$$AR - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot (AC + N_5) + 4 \cdot N_3^2} \dots \right]} + (N_3 + N_4) \cdot \left[(N_3 + N_4) \cdot \left[AC^2 \cdot (N_5^2 - 2) - 2 \cdot AC \cdot N_5 \right] - 4 \cdot N_3 \right] \right]}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[AC \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$

$$AR - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{\left(\frac{N_2}{N_1 + N_2} \right)^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot \left[\left(\frac{N_2}{N_1 + N_2} \right) + N_5 \right] + 4 \cdot N_3^2} \dots \right]} + (N_3 + N_4) \cdot \left[(N_3 + N_4) \cdot \left[\left(\frac{N_2}{N_1 + N_2} \right)^2 \cdot (N_5^2 - 2) - 2 \cdot \left(\frac{N_2}{N_1 + N_2} \right) \cdot N_5 \right] - 4 \cdot N_3 \right] \right]}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[\left(\frac{N_2}{N_1 + N_2} \right) \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{\left(\frac{N_2}{N_1 + N_2} \right)^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$



$N_1 = 2.64163$
 $N_2 = 1.69242$
 $N_3 = 0.45737$
 $N_4 = 1.27829$
 $N_5 = 0.94921$
 $R = 2.02571$

Unit. $AB := 1$ Given. $N_1 := 2.64163$ $N_2 := 1.69242$ $N_3 := .45737$ $N_4 := 1.27829$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .94921$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \qquad CN_4 := N_4 + AC \qquad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \qquad BG := N_4 \cdot \frac{(BN_4 - EN_4)}{BN_4}$$

$$FG := AB \cdot \frac{(N_3 - BG)}{N_3} \qquad R := \frac{N_5 \cdot AB}{FG} \qquad R = 2.025711$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2} = 0$$

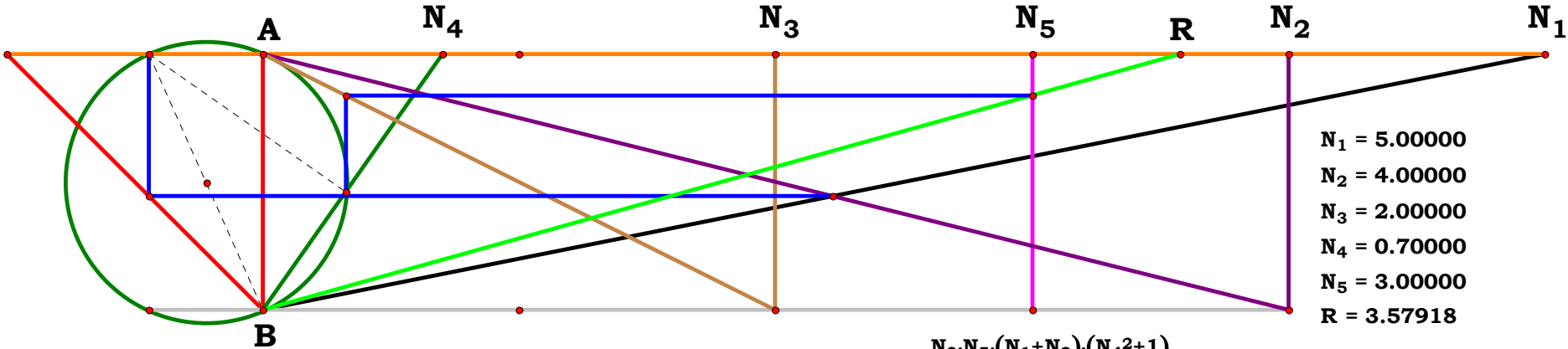
$$R - \frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{(N_3 - N_4 + N_3 \cdot N_4^2 + N_4^2) \cdot N_2 + N_1 \cdot (N_3 \cdot N_4^2 - N_4 + N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0 \qquad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{E \cdot [(A + B) \cdot N_u^2 + A \cdot C \cdot N_u - D \cdot (C - D) \cdot (A + B)]} = 0$$

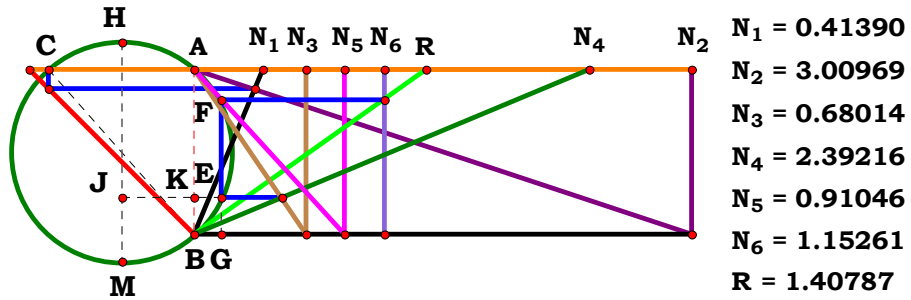
$$N_1 - \frac{V}{l} = 0 \qquad N_2 - \frac{W}{m} = 0 \qquad N_3 - \frac{X}{n} = 0 \qquad N_4 - \frac{Y}{o} = 0 \qquad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (Y^2 + o^2)}{p \cdot [X \cdot (Y^2 + o^2) \cdot (V \cdot m + W \cdot l) + Y \cdot n \cdot (W \cdot Y \cdot l - V \cdot m \cdot o - W \cdot l \cdot o)]} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 2.00000$
 $N_4 = 0.70000$
 $N_5 = 3.00000$
 $R = 3.57918$

$$\frac{N_3 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_4^2 + 1)}{N_2 \cdot ((N_3 - N_4) + N_3 \cdot N_4^2 + N_4^2) + N_1 \cdot ((N_3 \cdot N_4^2 - N_4) + N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .41390$ $N_2 := 3.00969$ $N_3 := .68014$
 $N_4 := 2.39216$ $N_5 := .91046$ $N_6 := 1.15261$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EG := \frac{N_3 \cdot AB}{N_3 + N_4} \quad HM := \sqrt{AB^2 + AC^2} \quad JM := EG - \frac{AB}{2} + \frac{HM}{2}$$

$$JE := \sqrt{JM \cdot (HM - JM)}$$

$$BG := JE - \frac{AC}{2} \quad FG := \frac{AB \cdot (N_5 - BG)}{N_5}$$

$$R := \frac{N_6 \cdot AB}{FG} \quad R = 1.407873$$

Definitions.

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot (N_1 + N_2) \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot (N_2 + 2 \cdot N_1 \cdot N_5 + 2 \cdot N_2 \cdot N_5) - \sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2)}} = 0$$

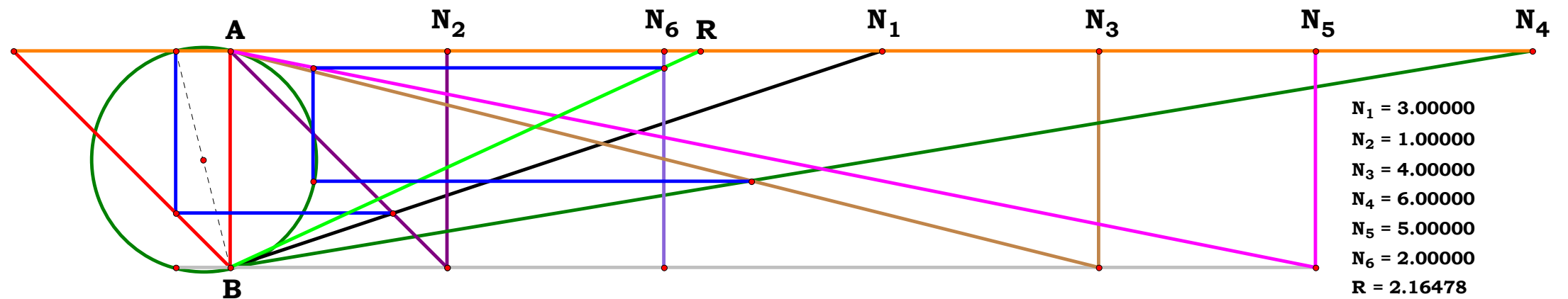
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{F \cdot [(C + D) \cdot [A \cdot E + 2 \cdot N_u \cdot (A + B)] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)}} = 0$$

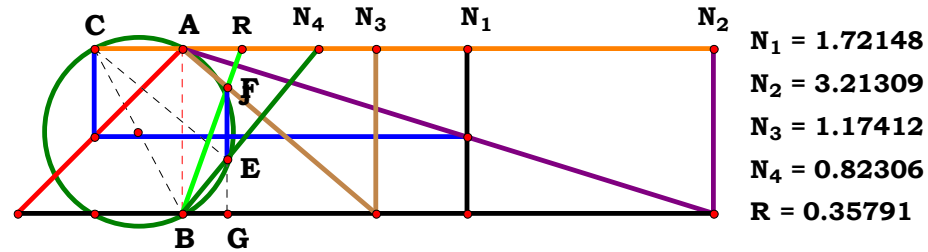
$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot (U \cdot l + V \cdot k) \cdot (W \cdot n + X \cdot m)}{p \cdot [(W \cdot n + X \cdot m) \cdot (2 \cdot U \cdot Y \cdot l + 2 \cdot V \cdot Y \cdot k + V \cdot k \cdot o) - o \cdot \sqrt{V^2 \cdot k^2 \cdot (W^2 \cdot n^2 + X^2 \cdot m^2) + 2 \cdot X \cdot W \cdot m \cdot n \cdot (2 \cdot U^2 \cdot l^2 + 4 \cdot U \cdot V \cdot k \cdot l + 3 \cdot V^2 \cdot k^2)}}] = 0$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



$$\frac{2 \cdot N_5 \cdot N_6 \cdot ((N_1 + N_2) \cdot (N_3 + N_4))}{(N_2 \cdot (N_3 + N_4) + 2 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 + N_2)) - \sqrt{N_2^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 3.21309$ $N_3 := 1.17412$ $N_4 := .82306$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad BG := \frac{N_4 \cdot BE}{BN_4}$$

$$FG := \frac{AB \cdot (N_3 - BG)}{N_3} \quad R := \frac{BG \cdot AB}{FG}$$

$$R = 0.357913$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC \cdot N_4 - 1)}{N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2} = 0$$

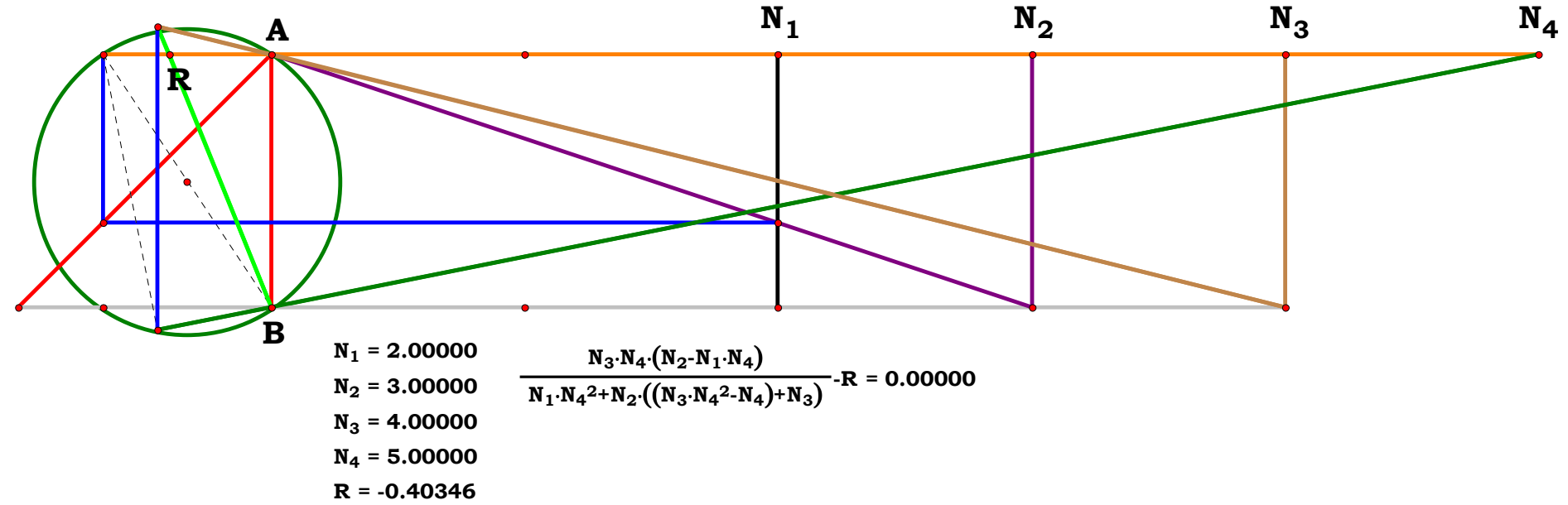
$$R - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1 \cdot N_4)}{N_1 \cdot N_4^2 + N_2 \cdot (N_3 \cdot N_4^2 - N_4 + N_3)} = 0$$

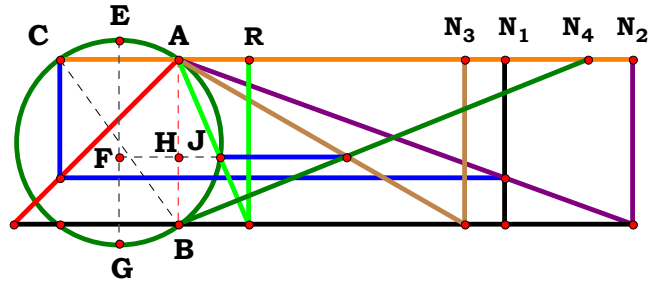
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u \cdot (A \cdot D - B \cdot N_u)}{A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X \cdot m \cdot p - W \cdot Z \cdot n)}{Z^2 \cdot (X \cdot Y \cdot m + W \cdot n \cdot o) + X \cdot m \cdot p \cdot (Y \cdot p - Z \cdot o)} = 0$$





$$\begin{aligned} N_1 &= 1.97331 \\ N_2 &= 2.74817 \\ N_3 &= 1.73589 \\ N_4 &= 2.47933 \\ R &= 0.42533 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.97331 \quad N_2 := 2.74817 \quad N_3 := 1.73589 \quad N_4 := 2.47933$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

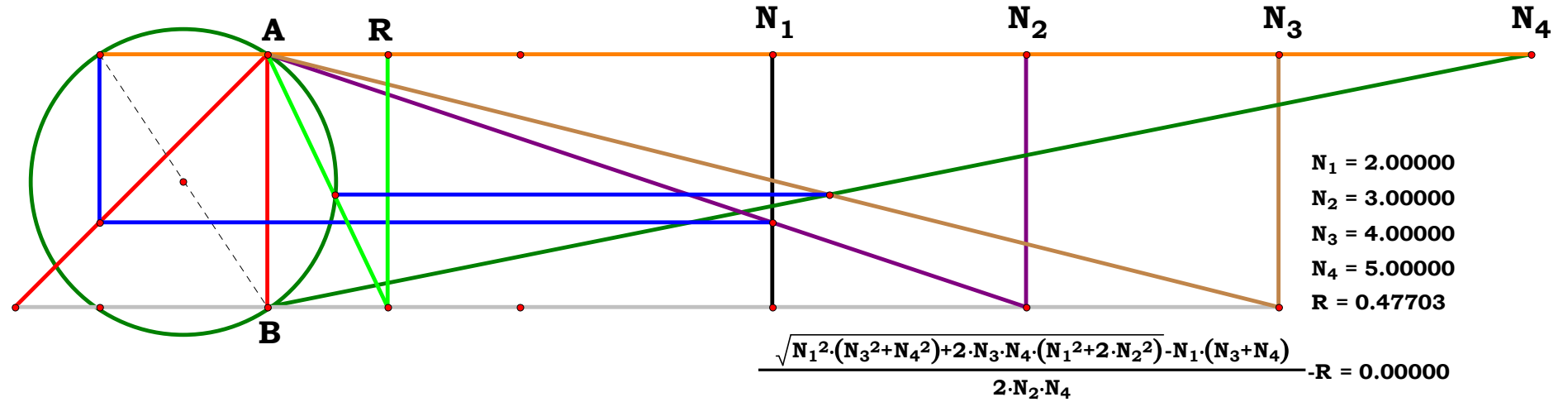
Descriptions.

$$AC := \frac{N_1}{N_2} \quad AH := \frac{AB \cdot N_4}{N_4 + N_3}$$

$$EG := \sqrt{AB^2 + AC^2} \quad EF := AH + \frac{(EG - AB)}{2}$$

$$FJ := \sqrt{EF \cdot (EG - EF)} \quad HJ := FJ - \frac{AC}{2}$$

$$R := \frac{HJ \cdot AB}{AH} \quad R = 0.425332$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ N_3 &= 4.00000 \\ N_4 &= 5.00000 \\ R &= 0.47703 \end{aligned}$$

$$\frac{\sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2)} - N_1 \cdot (N_3 + N_4)}{2 \cdot N_2 \cdot N_4} - R = 0.00000$$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

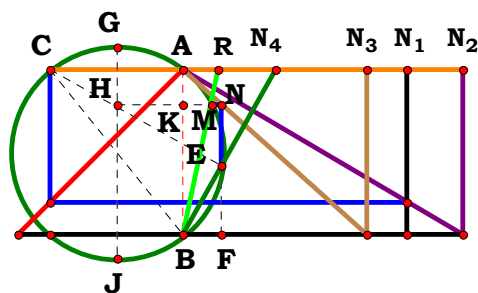
$$R - \frac{\sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2)} - N_1 \cdot (N_3 + N_4)}{2 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)}{2 \cdot A \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot (Y \cdot p + Z \cdot o)^2 + 4 \cdot X^2 \cdot Y \cdot Z \cdot m^2 \cdot o \cdot p} - W \cdot n \cdot (Y \cdot p + Z \cdot o)}{2 \cdot X \cdot Z \cdot m \cdot o} = 0$$



$N_1 = 1.35342$
 $N_2 = 1.69242$
 $N_3 = 1.11600$
 $N_4 = 0.56155$
 $R = 0.21705$

Unit. $AB := 1$ Given. $N_1 := 1.35342$ $N_2 := 1.69242$ $N_3 := 1.11600$ $N_4 := .56155$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

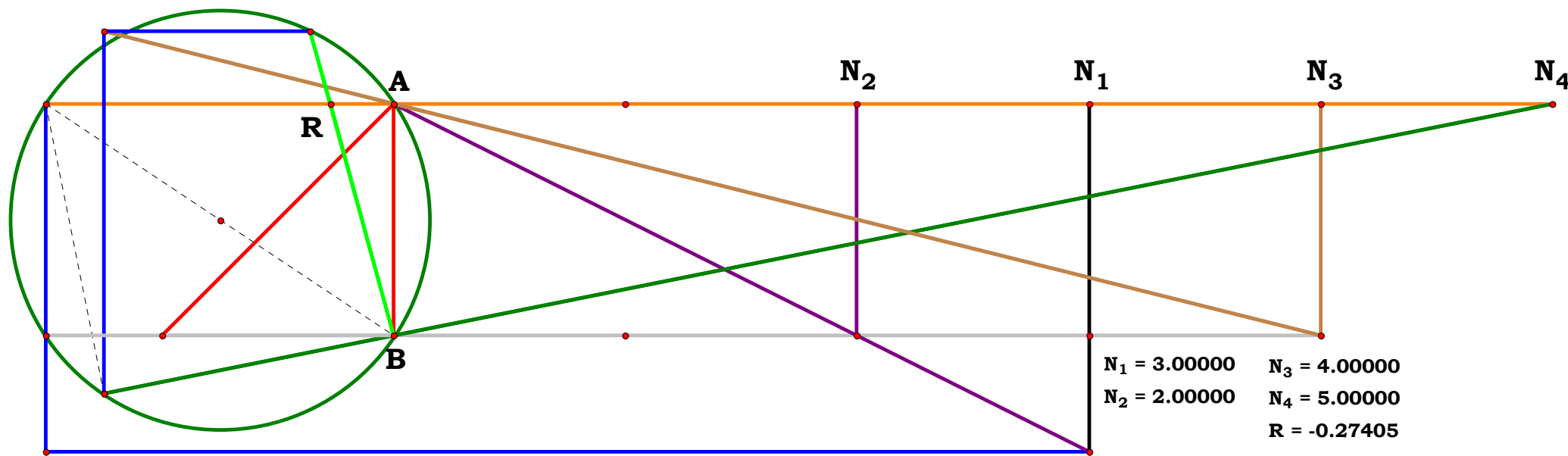
$$AC := \frac{N_1}{N_2} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BF := \frac{N_4 \cdot (BN_4 - EN_4)}{BN_4}$$

$$AK := \frac{AB \cdot BF}{N_3} \quad GJ := \sqrt{AB^2 + AC^2}$$

$$GH := AK + \frac{GJ - AB}{2} \quad HM := \sqrt{GH \cdot (GJ - GH)}$$

$$KM := HM - \frac{AC}{2} \quad R := \frac{KM \cdot AB}{AB - AK} \quad R = 0.217052$$



$$\frac{\sqrt{(N_1 \cdot N_3 \cdot (N_4^2 + 1))^2 - 4 \cdot N_4 \cdot (N_1 \cdot N_4 \cdot N_2) \cdot (N_4 \cdot (N_1 \cdot N_4 \cdot N_2) + N_2 \cdot N_3 \cdot (N_4^2 + 1)) - N_1 \cdot N_3 \cdot (N_4^2 + 1)}}{2 \cdot (((N_1 \cdot N_4^2 + N_2 \cdot N_3) - N_2 \cdot N_4) + N_2 \cdot N_3 \cdot N_4^2)} - R = 0.00000$$

Definitions.

$$R - \frac{N_3 \cdot (N_4^2 + 1) \cdot \left[AC \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} - \sqrt{AC \cdot N_3 \cdot N_4^2 \cdot (2 \cdot AC \cdot N_3 - 4 \cdot N_4^2 + AC \cdot N_3 \cdot N_4^2 - 4) + AC^2 \cdot N_3^2 - 4 \cdot AC \cdot N_4^3 \cdot (AC \cdot N_4 - 2) + 4 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) - 4 \cdot N_4^2} \right]}{2 \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} \cdot (N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2)} = 0$$

$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_4^2 + 1)^2 - 4 \cdot N_4^2 \cdot (N_2 - N_1 \cdot N_4)^2 + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_2 - N_1 \cdot N_4) \cdot (N_4^2 + 1) - N_1 \cdot N_3 \cdot (N_4^2 + 1)}}{2 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3 - N_2 \cdot N_4 + N_2 \cdot N_3 \cdot N_4^2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot (D^2 + N_u^2) - \sqrt{B^2 \cdot (D^2 + N_u^2)^2 - 4 \cdot C^2 \cdot (A \cdot D - B \cdot N_u)^2 + 4 \cdot A \cdot C \cdot (D^2 + N_u^2) \cdot (A \cdot D - B \cdot N_u)}}{2 \cdot [A \cdot D \cdot (C - D) - N_u \cdot (B \cdot C + A \cdot N_u)]} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot W^2 \cdot n^2 \cdot (Z^2 + p^2)^2 - 4 \cdot Z \cdot o \cdot (W \cdot Z \cdot n - X \cdot m \cdot p) \cdot [Z^2 \cdot (X \cdot Y \cdot m + W \cdot n \cdot o) + X \cdot m \cdot p \cdot (Y \cdot p - Z \cdot o)] - W \cdot Y \cdot Z^2 \cdot n - W \cdot Y \cdot n \cdot p^2}}{2 \cdot (X \cdot Y \cdot Z^2 \cdot m + W \cdot Z^2 \cdot n \cdot o + X \cdot Y \cdot m \cdot p^2 - X \cdot Z \cdot m \cdot o \cdot p)} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_2} \qquad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \qquad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

$$GM := \sqrt{JM \cdot (JN - JM)}$$

$$PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP}$$

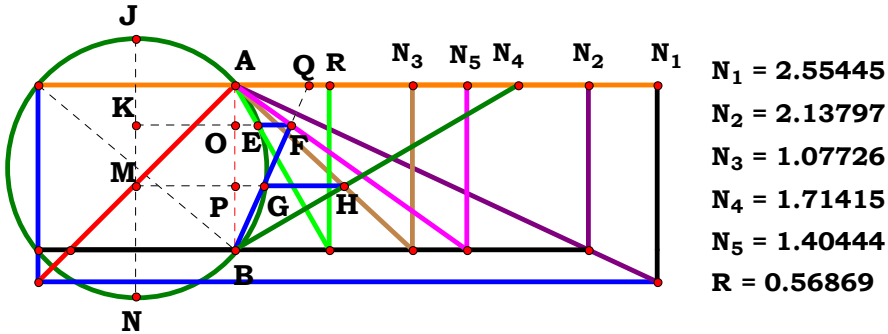
$$AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2}$$

$$EK := \sqrt{JK \cdot (JN - JK)}$$

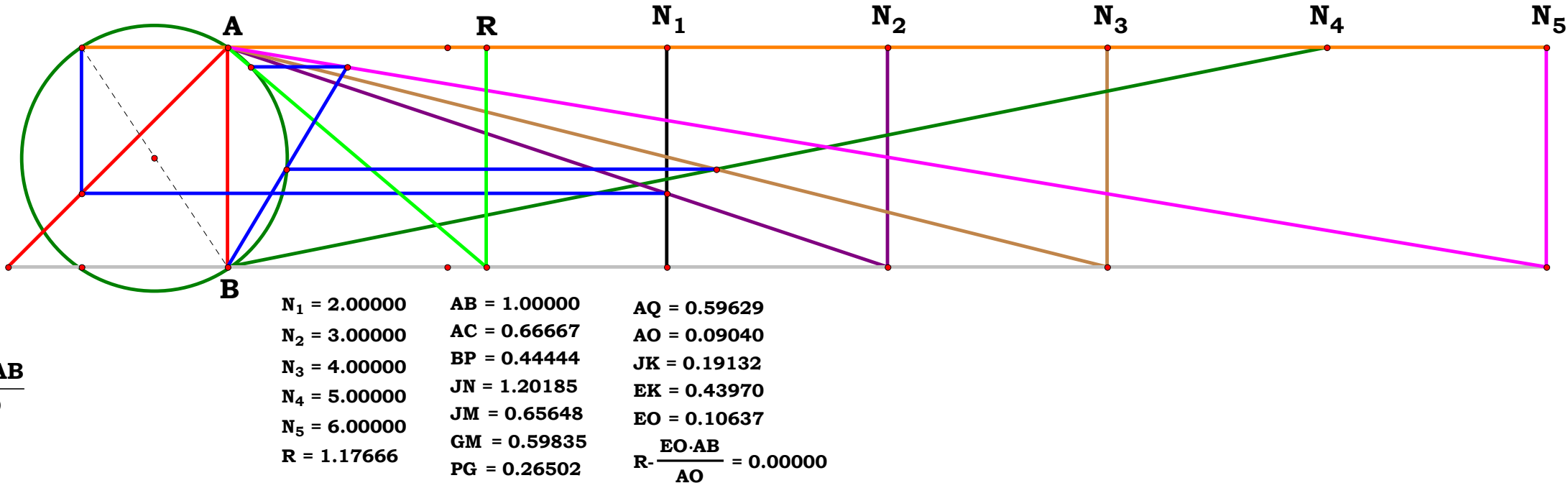
$$EO := EK - \frac{AC}{2} \qquad AR := \frac{EO \cdot AB}{AO}$$

$$AR = 0.568687$$



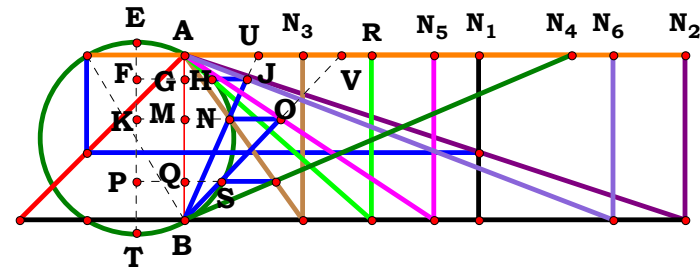
$$\text{Unit. } AB := 1 \text{ Given. } \quad N_1 := 2.55445 \quad N_2 := 2.13797 \quad N_3 := 1.07726$$

$$N_4 := 1.71415 \quad N_5 := 1.40444$$





4RST3AB5R4



$N_1 = 1.77959$ $N_5 = 1.51098$
 $N_2 = 3.02906$ $N_6 = 2.59579$
 $N_3 = 0.71888$ $R = 1.13216$
 $N_4 = 2.34373$

Unit. $AB := 1$ Given. $N_1 := 1.77959$ $N_2 := 3.02906$ $N_3 := .71888$
 $N_4 := 2.34373$ $N_5 := 1.51098$ $N_6 := 2.59579$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ} \quad BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{AB \cdot N_6}{AU + N_6}$$

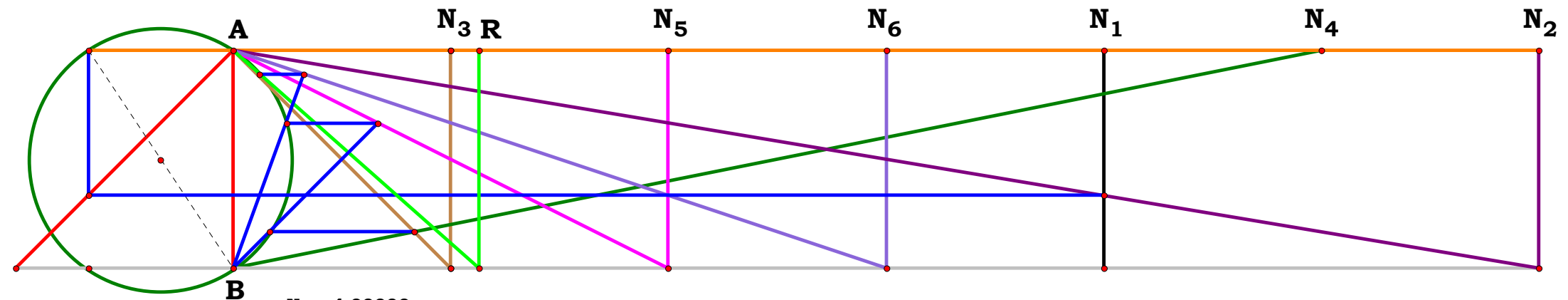
$$AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

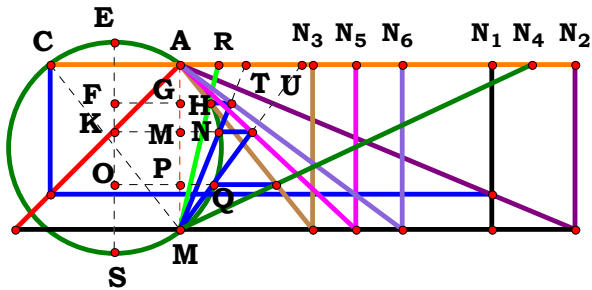
$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{AG}$$

$$AR = 1.132161$$

Definitions.



$N_1 = 4.00000$	$AB = 1.00000$	$AV = 1.00000$	$AG = 0.10874$
$N_2 = 6.00000$	$AC = 0.66667$	$BM = 0.66667$	$EF = 0.20967$
$N_3 = 1.00000$	$BQ = 0.16667$	$KT = 0.76759$	$FH = 0.45610$
$N_4 = 5.00000$	$ET = 1.20185$	$KN = 0.57735$	$GH = 0.12277$
$N_5 = 2.00000$	$EP = 0.93426$	$MN = 0.24402$	$R \cdot \frac{GH \cdot AB}{AG} = 0.00000$
$N_6 = 3.00000$	$PS = 0.50000$	$AU = 0.36603$	
$R = 1.12898$	$QS = 0.16667$	$BG = 0.89126$	



$$\begin{aligned} N_1 &= 1.88613 & N_5 &= 1.06544 \\ N_2 &= 2.38980 & N_6 &= 1.34632 \\ N_3 &= 0.80606 & R &= 0.23489 \\ N_4 &= 2.13064 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 \text{ Given. } & N_1 &:= 1.88613 & N_2 &:= 2.38980 & N_3 &:= .80606 \\ & & N_4 &:= 2.13064 & N_5 &:= 1.06544 & N_6 &:= 1.34632 \end{aligned}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

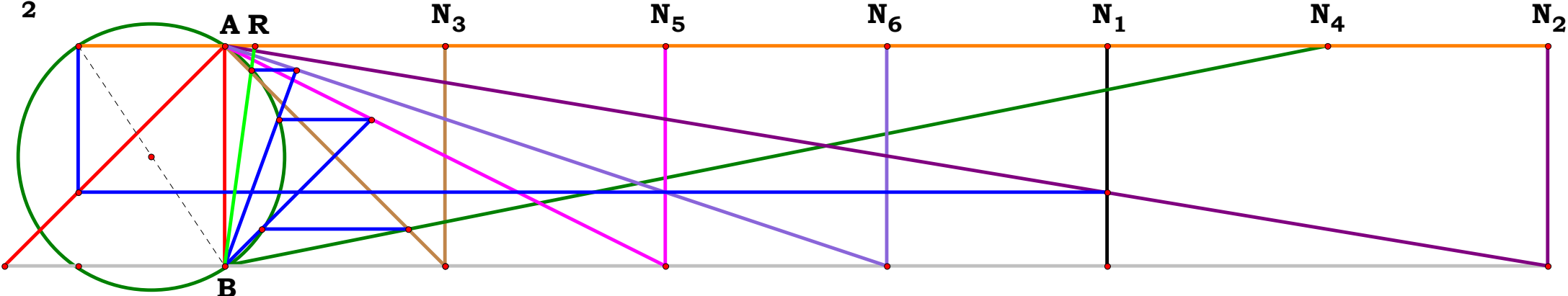
$$MN := KN - \frac{AC}{2}$$

$$AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

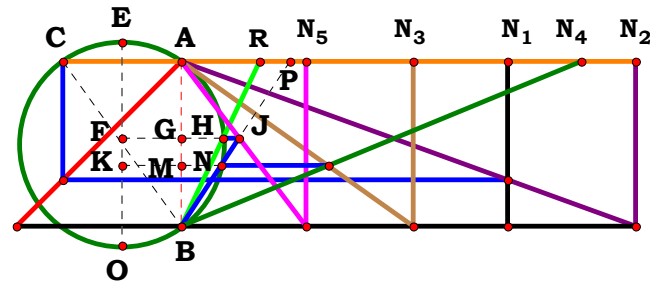
$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$AR := \frac{GH \cdot AB}{BG} \quad AR = 0.234891$$



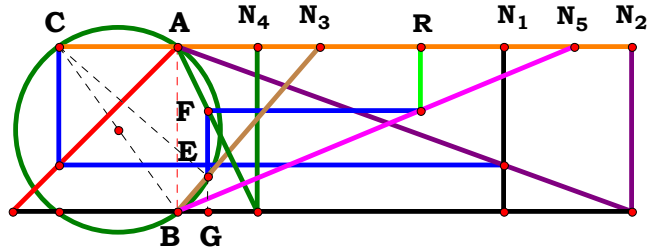
$N_1 = 4.00000$	$AB = 1.00000$	$AU = 1.00000$	$FS = 0.99218$
$N_2 = 6.00000$	$AC = 0.66667$	$BM = 0.66667$	$FH = 0.45610$
$N_3 = 1.00000$	$BP = 0.16667$	$KS = 0.76759$	$GH = 0.12277$
$N_4 = 5.00000$	$ES = 1.20185$	$KN = 0.57735$	$R - \frac{GH \cdot AB}{BG} = 0.00000$
$N_5 = 2.00000$	$OS = 0.26759$	$MN = 0.24402$	
$N_6 = 3.00000$	$OQ = 0.50000$	$AT = 0.36603$	
$R = 0.13775$	$PQ = 0.16667$	$BG = 0.89126$	

Definitions.



**Unit. AB := 1 Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := 1.40657$
 $N_4 := 2.42122$ $N_5 := .75549$**

$$R - \frac{AB \cdot GH}{BG} = 0.00000$$



$N_1 = 1.97331$
 $N_2 = 2.74817$
 $N_3 = 0.86417$
 $N_4 = 0.48406$
 $N_5 = 2.40207$
 $R = 1.47045$

Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .86417$ $N_4 := .48406$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := 2.40207$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_3 := N_3 + AC \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3}$$

$$FG := \frac{AB \cdot (N_4 - BG)}{N_4} \quad R := \frac{N_5 \cdot FG}{AB} \quad R = 1.470443$$

Definitions.

$$R - \frac{N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + AC \cdot N_3^2)}{N_4 \cdot (N_3^2 + 1)} = 0$$

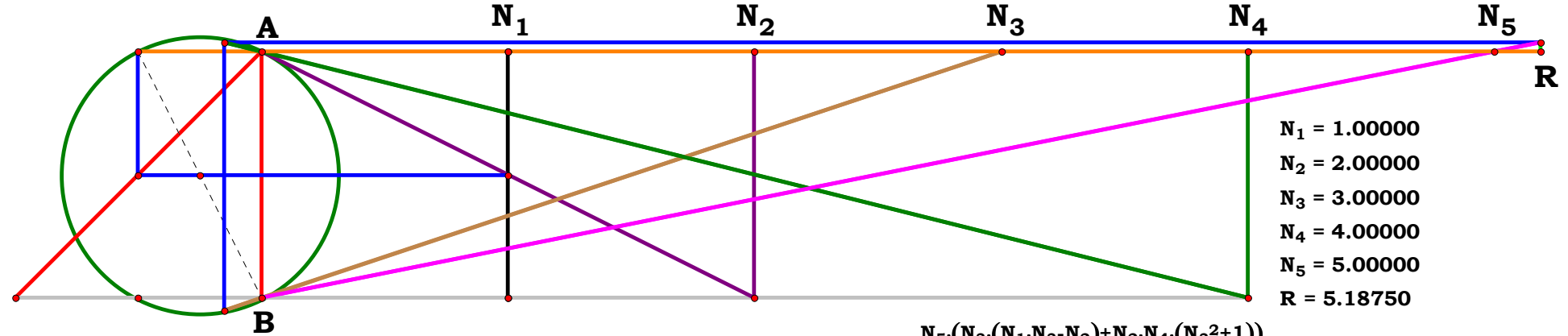
$$R - \frac{N_5 \cdot [N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1)]}{N_2 \cdot N_4 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot C \cdot N_u \cdot (C - D) + N_u^2 \cdot (B \cdot D + A \cdot N_u)}{A \cdot E \cdot (C^2 + N_u^2)} = 0$$

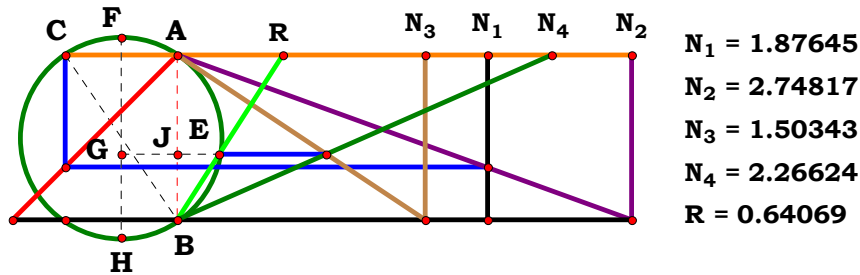
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{X^2 \cdot Z \cdot (W \cdot Y \cdot l + V \cdot m \cdot o) + -W \cdot Z \cdot l \cdot n \cdot (X \cdot o - Y \cdot n)}{W \cdot Y \cdot l \cdot p \cdot X^2 + W \cdot Y \cdot l \cdot p \cdot n^2} = 0$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $N_5 = 5.00000$
 $R = 5.18750$

$$\frac{N_5 \cdot (N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1))}{N_2 \cdot N_4 \cdot (N_3^2 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.87645$ $N_2 := 2.74817$ $N_3 := 1.50343$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $N_4 := 2.26624$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

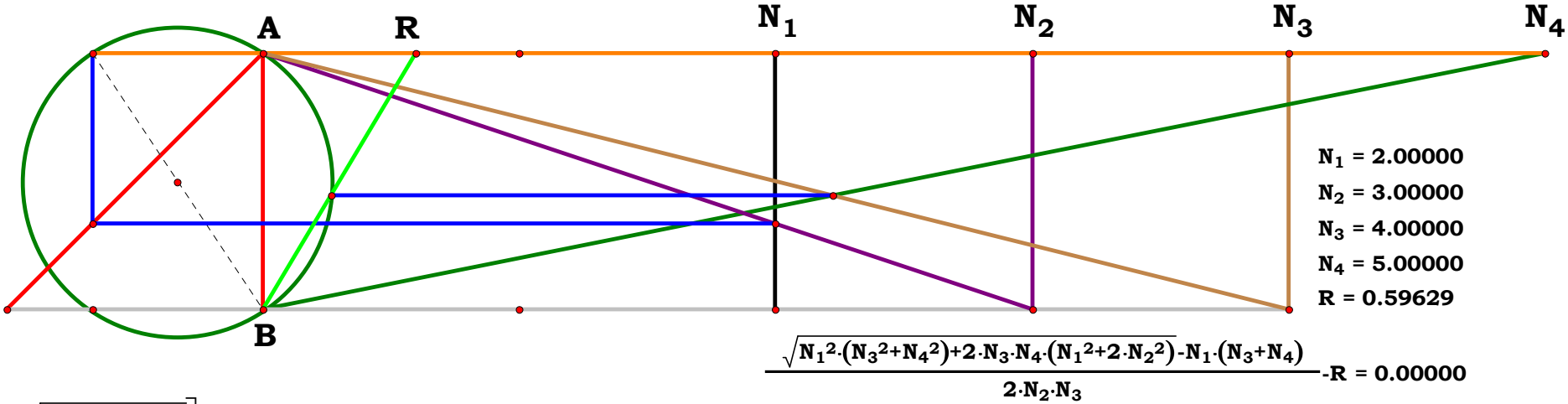
Descriptions.

$$AC := \frac{N_1}{N_2} \qquad BJ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \qquad GH := BJ + \frac{FH - AB}{2}$$

$$GE := \sqrt{GH \cdot (FH - GH)} \qquad JE := GE - \frac{AC}{2}$$

$$R := \frac{JE \cdot AB}{BJ} \qquad R = 0.640693$$



Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

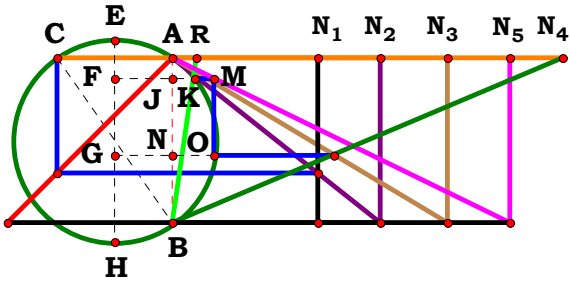
$$R - \frac{\sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2)} - N_1 \cdot (N_3 + N_4)}{2 \cdot N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)}{2 \cdot A \cdot D} = 0$$

$$N_1 - \frac{W}{m} = 0 \qquad N_2 - \frac{X}{n} = 0 \qquad N_3 - \frac{Y}{o} = 0 \qquad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W^2 \cdot n^2 \cdot (Y^2 \cdot p^2 + Z^2 \cdot o^2) + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (W^2 \cdot n^2 + 2 \cdot X^2 \cdot m^2)} - W \cdot n \cdot (Y \cdot p + Z \cdot o)}{2 \cdot X \cdot Y \cdot m \cdot p} = 0$$



$N_1 = 0.87881$
 $N_2 = 1.25656$
 $N_3 = 1.66809$
 $N_4 = 2.36310$
 $N_5 = 2.04370$
 $R = 0.14984$

Unit. $AB := 1$ Given. $N_1 := .87881$ $N_2 := 1.25656$ $N_3 := 1.66809$ $N_4 := 2.36310$
 $N_5 := 2.04370$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

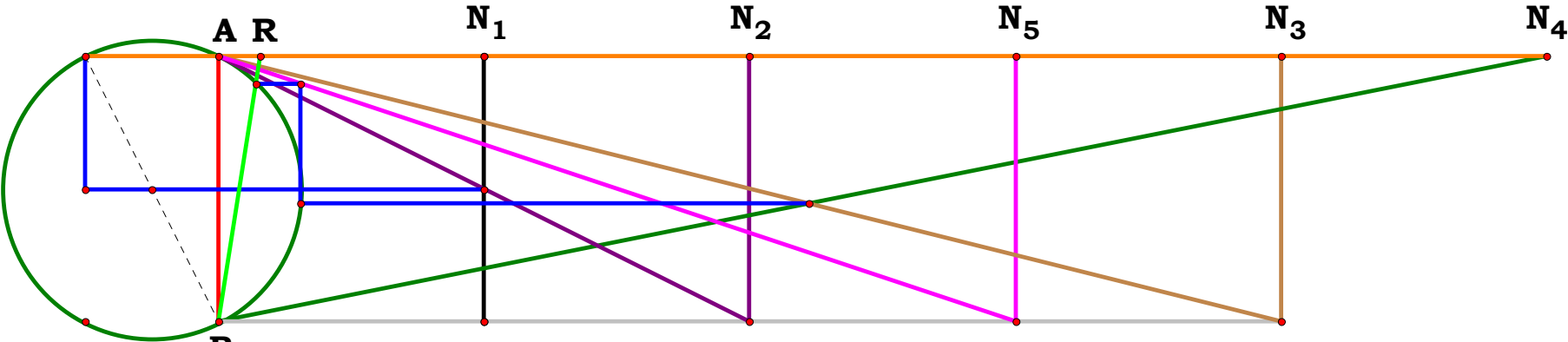
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

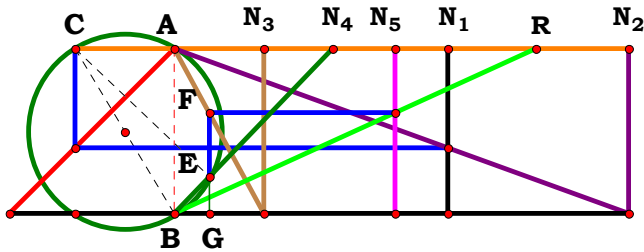
$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$AR := \frac{JK \cdot AB}{BK} \quad AR = 0.149838$$



$N_1 = 1.00000$	$AB = 1.00000$	$BK = 0.89792$
$N_2 = 2.00000$	$AC = 0.50000$	$FH = 0.95693$
$N_3 = 4.00000$	$EH = 1.11803$	$FK = 0.39263$
$N_4 = 5.00000$	$BN = 0.44444$	$JK = 0.14263$
$N_5 = 3.00000$	$GH = 0.50346$	$R - \frac{AB \cdot JK}{BK} = 0.00000$
$R = 0.15885$	$GO = 0.55625$	
	$NO = 0.30625$	



$N_1 = 1.65368$
 $N_2 = 2.74817$
 $N_3 = 0.54454$
 $N_4 = 0.95866$
 $N_5 = 1.33664$
 $R = 2.18469$

Unit. $AB := 1$ Given. $N_1 := 1.65368$ $N_2 := 2.74817$ $N_3 := .54454$ $N_4 := .95866$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := 1.33664$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \qquad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BG := N_4 \cdot \frac{(BN_4 - EN_4)}{BN_4} \qquad FG := AB \cdot \frac{(N_3 - BG)}{N_3}$$

$$R := \frac{N_5 \cdot AB}{FG} \qquad R = 2.184699$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2} = 0$$

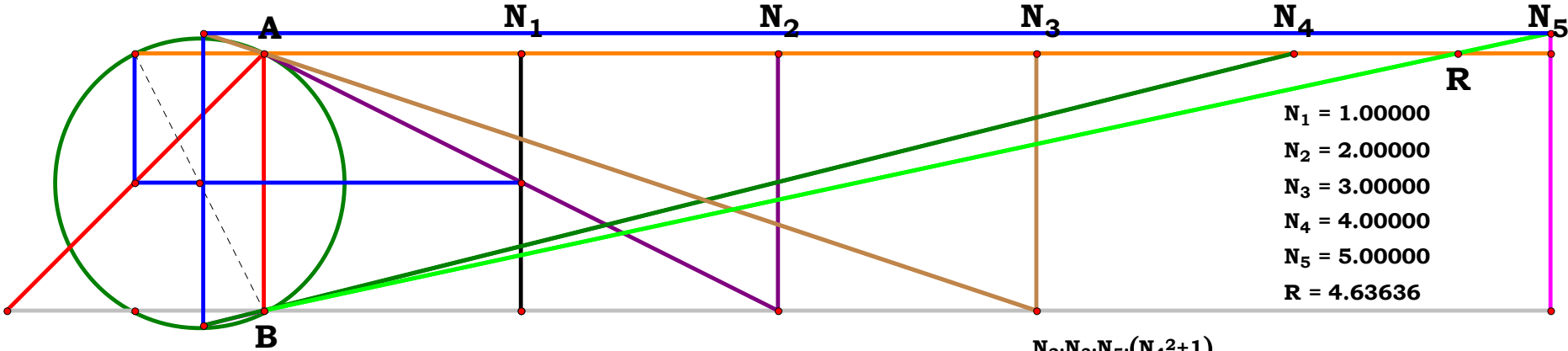
$$R - \frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{(N_3 \cdot N_4^2 - N_4 + N_3) \cdot N_2 + N_1 \cdot N_4^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0 \qquad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (D^2 + N_u^2)}{E \cdot [A \cdot D \cdot (D - C) + N_u \cdot (B \cdot C + A \cdot N_u)]} = 0$$

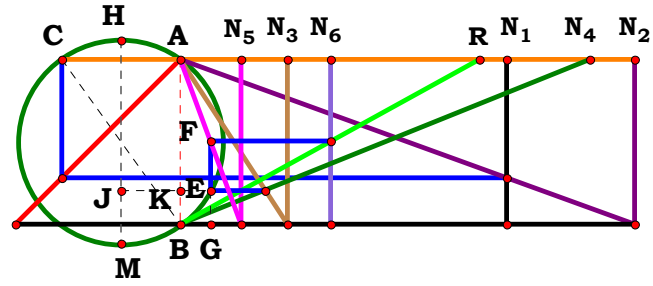
$$N_1 - \frac{V}{l} = 0 \qquad N_2 - \frac{W}{m} = 0 \qquad N_3 - \frac{X}{n} = 0 \qquad N_4 - \frac{Y}{o} = 0 \qquad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot l \cdot (Y^2 + o^2)}{p \cdot [Y^2 \cdot (W \cdot X \cdot l + V \cdot m \cdot n) + W \cdot l \cdot o \cdot (X \cdot o - Y \cdot n)]} = 0$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $N_5 = 5.00000$
 $R = 4.63636$

$$\frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_2 \cdot ((N_3 \cdot N_4^2 - N_4) + N_3) + N_1 \cdot N_4^2} - R = 0.00000$$



$N_1 = 1.97331$
 $N_2 = 2.74817$
 $N_3 = 0.65108$
 $N_4 = 2.47933$
 $N_5 = 0.36806$
 $N_6 = 0.91046$
 $R = 1.80932$

Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .65108$
 $N_4 := 2.47933$ $N_5 := .36806$ $N_6 := .91046$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EG := \frac{N_3 \cdot AB}{N_3 + N_4} \quad HM := \sqrt{AB^2 + AC^2}$$

$$JM := EG + \frac{HM - AB}{2}$$

$$JE := \sqrt{JM \cdot (HM - JM)}$$

$$BG := JE - \frac{AC}{2}$$

$$FG := \frac{AB \cdot (N_5 - BG)}{N_5}$$

$$R := \frac{N_6 \cdot AB}{FG}$$

$$R = 1.809309$$

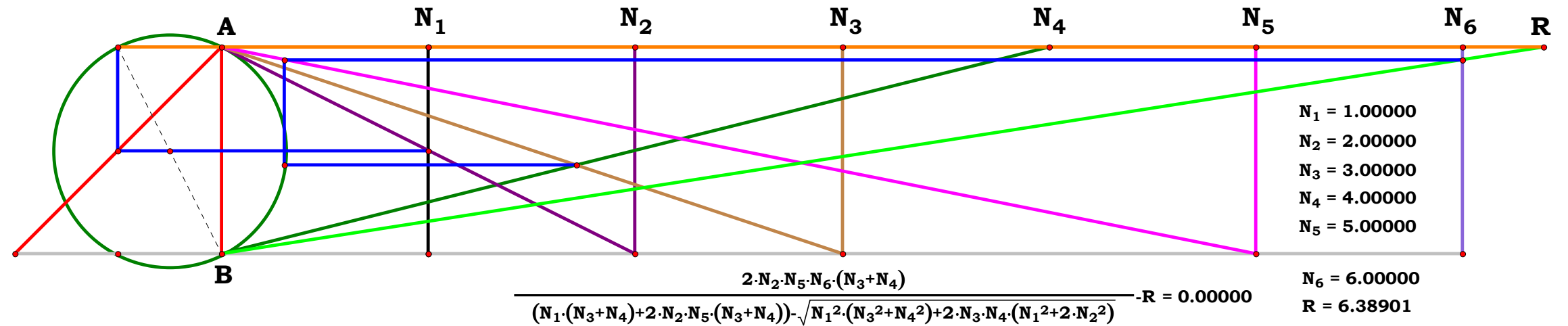
Definitions.

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

$$R - \frac{2 \cdot N_2 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot (N_1 + 2 \cdot N_2 \cdot N_5) - \sqrt{N_1^2 \cdot (N_3^2 + N_4^2) + 2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2)}} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot (C + D)}{F \cdot [B \cdot E \cdot (C + D) + 2 \cdot A \cdot N_u \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)}} = 0$$

$$R - \frac{2 \cdot V \cdot Y \cdot Z \cdot k \cdot (W \cdot n + X \cdot m)}{p \cdot [(W \cdot n + X \cdot m) \cdot (2 \cdot V \cdot Y \cdot k + U \cdot l \cdot o) - o \cdot \sqrt{U^2 \cdot l^2 \cdot (W^2 \cdot n^2 + X^2 \cdot m^2) + 2 \cdot W \cdot X \cdot m \cdot n \cdot (U^2 \cdot l^2 + 2 \cdot V^2 \cdot k^2)}]} = 0$$



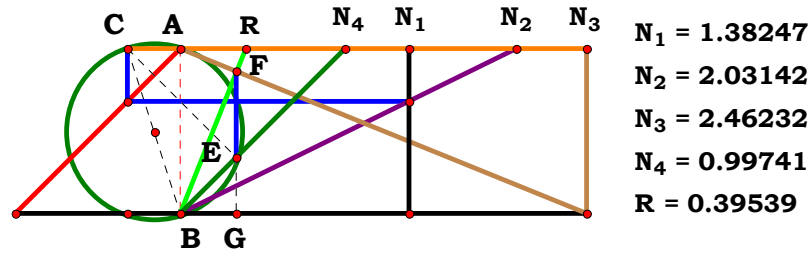
$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 4.00000$
 $N_5 = 5.00000$
 $N_6 = 6.00000$
 $R = 6.38901$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$



4RST3AB6R0



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 2.46232$

$N_4 := .99741$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BE := BN_4 - EN_4 \quad BG := \frac{N_4 \cdot BE}{BN_4}$$

$$FG := \frac{AB \cdot (N_3 - BG)}{N_3} \quad R := \frac{BG \cdot AB}{FG}$$

$R = 0.39539$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot (AC \cdot N_4 - 1)}{N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2} = 0$$

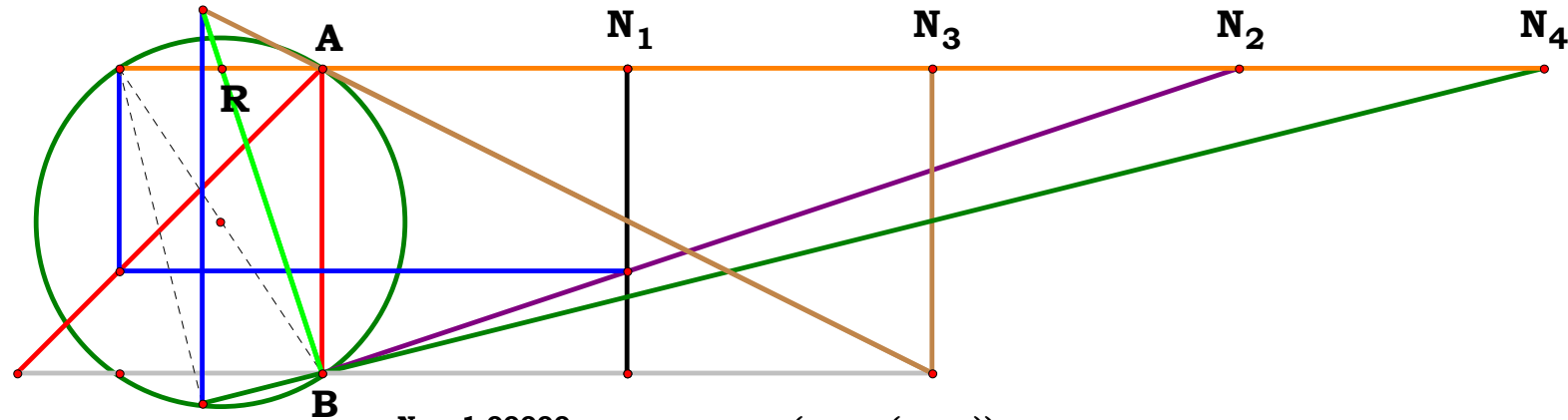
$$R - \frac{N_3 \cdot N_4 \cdot [N_2 + N_4 \cdot (N_1 - N_2)]}{N_4 \cdot (N_2 \cdot N_4 - N_1 \cdot N_4 - N_2) + N_2 \cdot N_3 \cdot (N_4^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

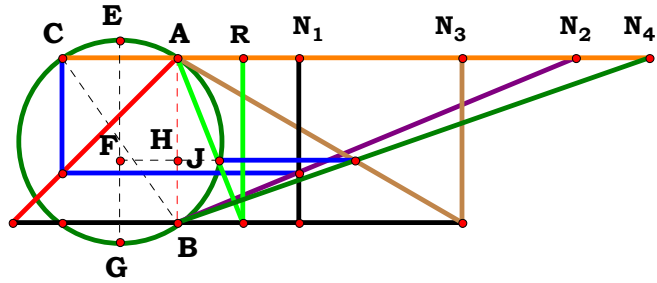
$$R - \frac{N_u \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)}{A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (W \cdot Z \cdot n - X \cdot Z \cdot m + X \cdot m \cdot p)}{X \cdot m \cdot (Y \cdot Z^2 + Y \cdot p^2 + Z^2 \cdot o - Z \cdot o \cdot p) - W \cdot Z^2 \cdot n \cdot o} = 0$$



$$\frac{N_3 \cdot N_4 \cdot (N_2 + N_4 \cdot (N_1 - N_2))}{N_4 \cdot (N_2 \cdot N_4 - N_1 \cdot N_4 - N_2) + N_2 \cdot N_3 \cdot (N_4^2 + 1)} \cdot R = 0.00000$$



$$\begin{aligned} N_1 &= 0.73353 \\ N_2 &= 2.40917 \\ N_3 &= 1.72621 \\ N_4 &= 2.85708 \\ R &= 0.39889 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .73353 \quad N_2 := 2.40917 \quad N_3 := 1.72621$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad N_4 := 2.85708$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

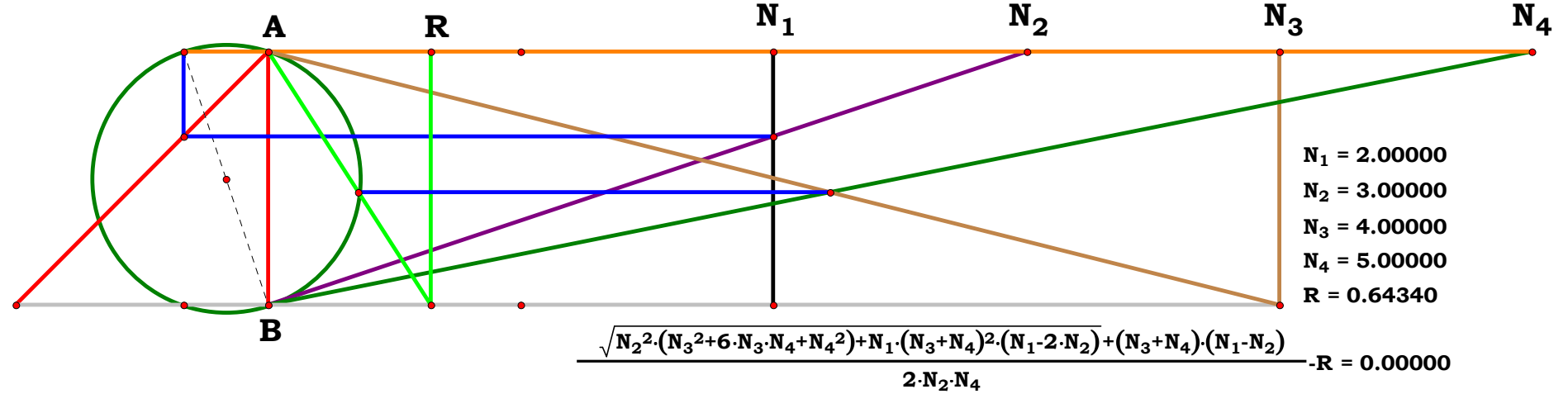
Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad AH := \frac{AB \cdot N_4}{N_4 + N_3}$$

$$EG := \sqrt{AB^2 + AC^2} \quad EF := AH + \frac{(EG - AB)}{2}$$

$$FJ := \sqrt{EF \cdot (EG - EF)} \quad HJ := FJ - \frac{AC}{2}$$

$$R := \frac{HJ \cdot AB}{AH} \quad R = 0.398896$$



Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_4 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

$$R - \frac{\sqrt{N_2^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_1 \cdot (N_3 + N_4)^2 \cdot (N_1 - 2 \cdot N_2) + (N_3 + N_4) \cdot (N_1 - N_2)}}{2 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B)}{2 \cdot A \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{(Y^2 \cdot p^2 + Z^2 \cdot o^2) \cdot (W \cdot n - X \cdot m)^2 + 2 \cdot Y \cdot Z \cdot o \cdot p \cdot (W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2)} + (Y \cdot p + Z \cdot o) \cdot (W \cdot n - X \cdot m)}{2 \cdot X \cdot Z \cdot m \cdot o} = 0$$



4RST3AB6R2

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_4 := N_4 + AC \quad BN_4 := \sqrt{N_4^2 + AB^2}$$

$$EN_4 := \frac{N_4 \cdot CN_4}{BN_4} \quad BF := \frac{N_4 \cdot (BN_4 - EN_4)}{BN_4}$$

$$AK := \frac{AB \cdot BF}{N_3} \quad GJ := \sqrt{AB^2 + AC^2}$$

$$GH := AK + \frac{GJ - AB}{2} \quad HM := \sqrt{GH \cdot (GJ - GH)}$$

$$KM := HM - \frac{AC}{2} \quad R := \frac{KM \cdot AB}{AB - AK} \quad R = 0.178653$$

Definitions.

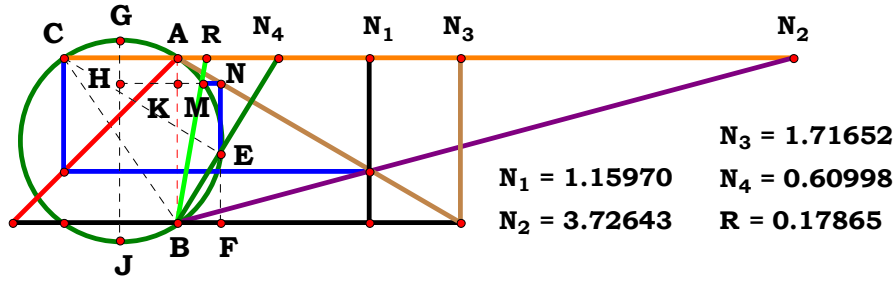
$$R - \frac{N_3 \cdot (N_4^2 + 1) \cdot \left[AC \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} - \sqrt{AC \cdot N_3 \cdot N_4^2 \cdot (2 \cdot AC \cdot N_3 - 4 \cdot N_4^2 + AC \cdot N_3 \cdot N_4^2 - 4) + AC^2 \cdot N_3^2 - 4 \cdot AC \cdot N_4^3 \cdot (AC \cdot N_4 - 2) + 4 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) - 4 \cdot N_4^2} \right]}{2 \cdot \sqrt{[N_3 \cdot (N_4^2 + 1)]^2} \cdot (N_4 - N_3 - N_3 \cdot N_4^2 - AC \cdot N_4^2)} = 0$$

$$R - \frac{\sqrt{N_3^2 \cdot (N_4^2 + 1)^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_4^2 \cdot (N_2 + N_1 \cdot N_4 - N_2 \cdot N_4)^2 + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_4^2 + 1) \cdot (N_2 + N_1 \cdot N_4 - N_2 \cdot N_4) + N_3 \cdot (N_4^2 + 1) \cdot (N_1 - N_2)}}{2 \cdot (N_2 \cdot N_4^2 - N_1 \cdot N_4^2 + N_2 \cdot N_3 - N_2 \cdot N_4 + N_2 \cdot N_3 \cdot N_4^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(D^2 + N_u^2) \cdot (A - B) - \sqrt{(D^2 + N_u^2)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)^2 + 4 \cdot A \cdot C \cdot (D^2 + N_u^2) \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)}}{2 \cdot (A \cdot C \cdot D - A \cdot N_u^2 - A \cdot D^2 - A \cdot C \cdot N_u + B \cdot C \cdot N_u)} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

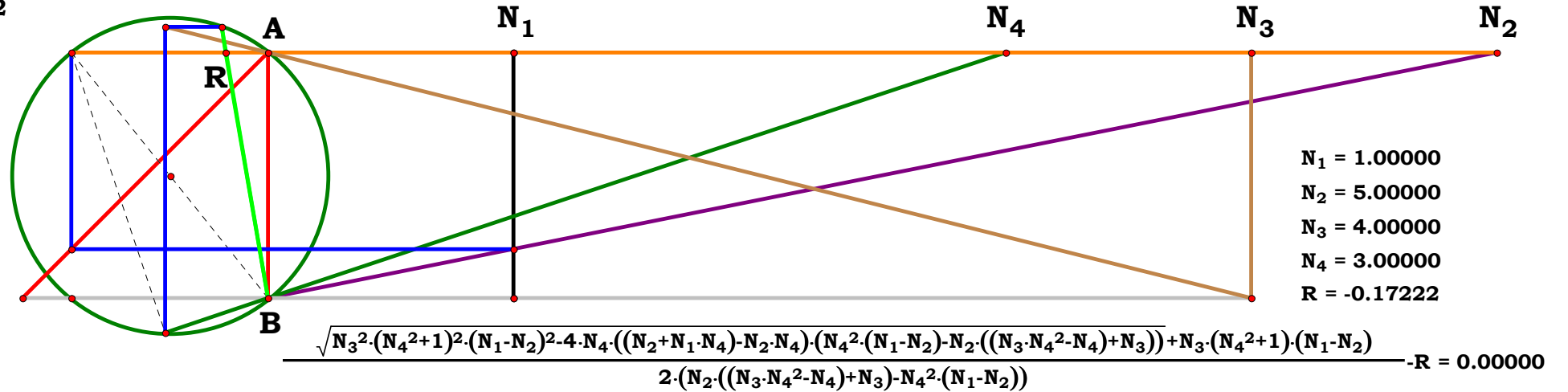
$$R - \frac{\sqrt{Y^2 \cdot (Z^2 + p^2)^2 \cdot (W \cdot n - X \cdot m)^2 + 4 \cdot Y \cdot X \cdot Z \cdot m \cdot o \cdot (Z^2 + p^2) \cdot (W \cdot Z \cdot n - X \cdot Z \cdot m + X \cdot m \cdot p) - 4 \cdot Z^2 \cdot o^2 \cdot (W \cdot Z \cdot n - X \cdot Z \cdot m + X \cdot m \cdot p)^2 + Y \cdot (Z^2 + p^2) \cdot (W \cdot n - X \cdot m)}}{2 \cdot (X \cdot Y \cdot Z^2 \cdot m - W \cdot Z^2 \cdot n \cdot o + X \cdot Y \cdot m \cdot p^2 + X \cdot Z^2 \cdot m \cdot o - X \cdot Z \cdot m \cdot o \cdot p)} = 0$$

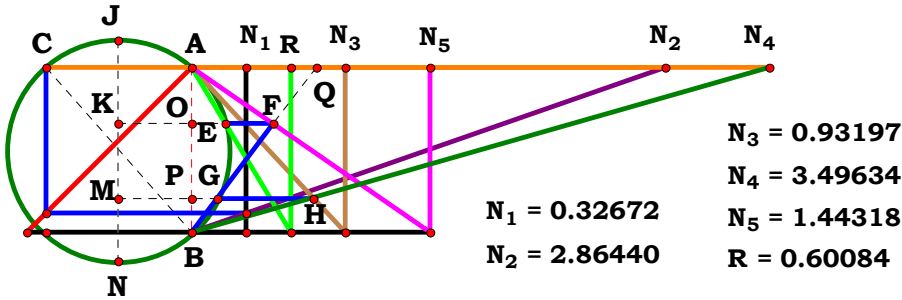


Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 3.72643$ $N_3 := 1.71652$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad N_4 := .60998$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





Unit. $AB := 1$ Given. $N_1 := .32672$ $N_2 := 2.86440$ $N_3 := .93197$
 $N_4 := 3.49634$ $N_5 := 1.44318$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \qquad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \qquad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

$$GM := \sqrt{JM \cdot (JN - JM)} \qquad PG := GM - \frac{AC}{2}$$

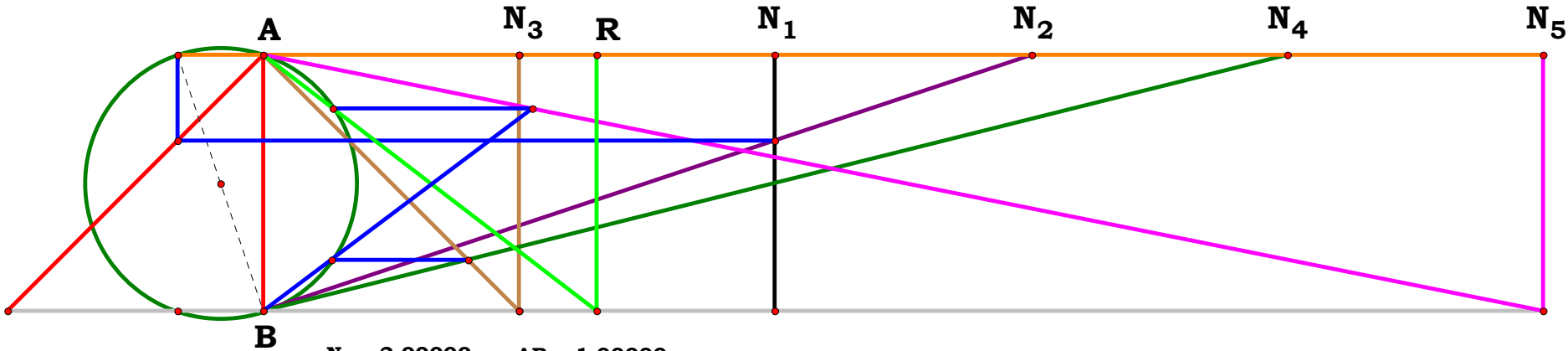
$$AQ := \frac{PG \cdot AB}{BP} \qquad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

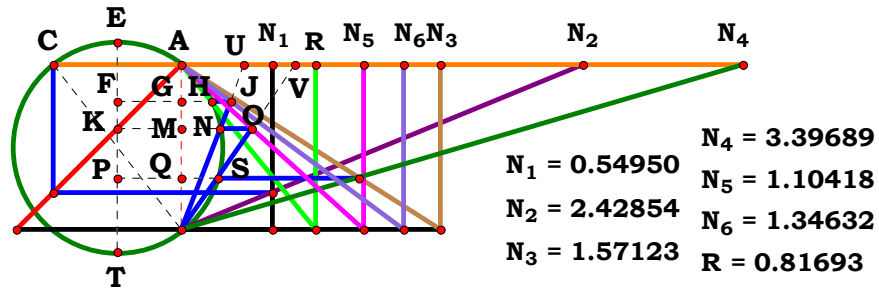
$$JK := AO + \frac{JN - AB}{2} \qquad EK := \sqrt{JK \cdot (JN - JK)}$$

$$EO := EK - \frac{AC}{2} \qquad AR := \frac{EO \cdot AB}{AO}$$

$$AR = 0.600839$$

Definitions.





Unit. $AB := 1$ Given. $N_1 := .54950$ $N_2 := 2.42854$ $N_3 := 1.57123$ $N_4 := 3.39689$
 $N_5 := 1.10418$ $N_6 := 1.34632$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ} \quad BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{AB \cdot N_6}{AU + N_6}$$

$$AG := AB - BG$$

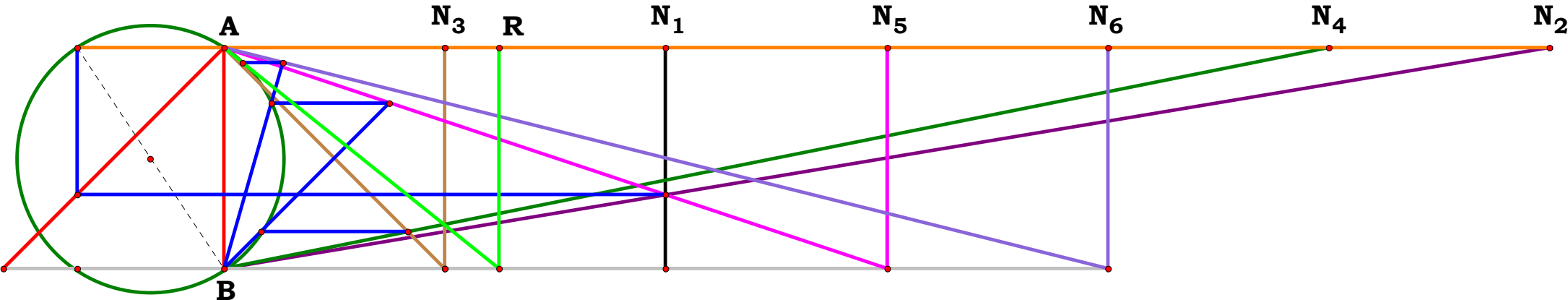
$$EF := AG + \frac{ET - AB}{2}$$

$$FH := \sqrt{EF \cdot (ET - EF)}$$

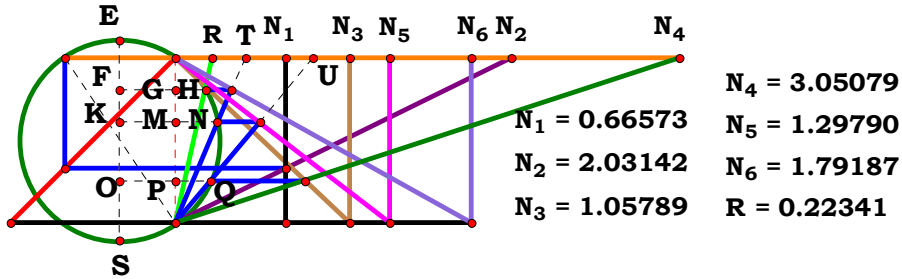
$$GH := FH - \frac{AC}{2} \quad AR := \frac{GH \cdot AB}{AG}$$

$$AR = 0.816934$$

Definitions.



$N_1 = 2.00000$	$AB = 1.00000$	$AV = 1.00000$	$AG = 0.06633$
$N_2 = 6.00000$	$AC = 0.66667$	$BM = 0.75000$	$EF = 0.16725$
$N_3 = 1.00000$	$BQ = 0.16667$	$KT = 0.85093$	$FH = 0.41598$
$N_4 = 5.00000$	$ET = 1.20185$	$KN = 0.54645$	$GH = 0.08265$
$N_5 = 3.00000$	$EP = 0.93426$	$MN = 0.21312$	$R - \frac{AB \cdot GH}{AG} = 0.00000$
$N_6 = 4.00000$	$PS = 0.50000$	$AU = 0.28416$	
$R = 1.24604$	$QS = 0.16667$	$BG = 0.93367$	



Unit. $AB := 1$ Given. $N_1 := .66573$ $N_2 := 2.03142$ $N_3 := 1.05789$ $N_4 := 3.05079$
 $N_5 := 1.29790$ $N_6 := 1.79187$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \qquad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \qquad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \qquad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP} \qquad BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

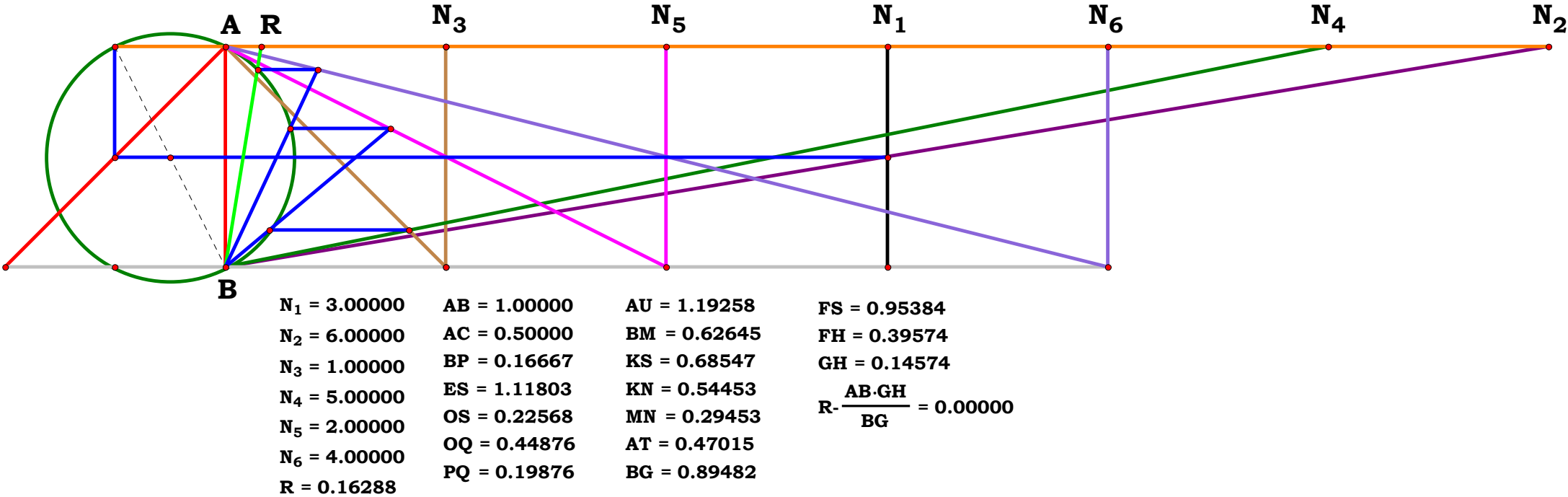
$$KN := \sqrt{KS \cdot (ES - KS)}$$

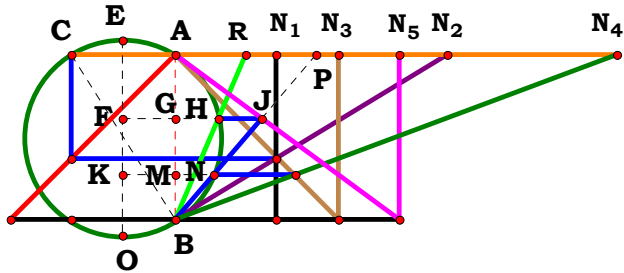
$$MN := KN - \frac{AC}{2} \qquad AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \qquad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \qquad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \qquad R = 0.223407$$





N₁ = 0.60761
N₂ = 1.64399
N₃ = 0.99009
N₄ = 2.67305
N₅ = 1.35601
R = 0.43013

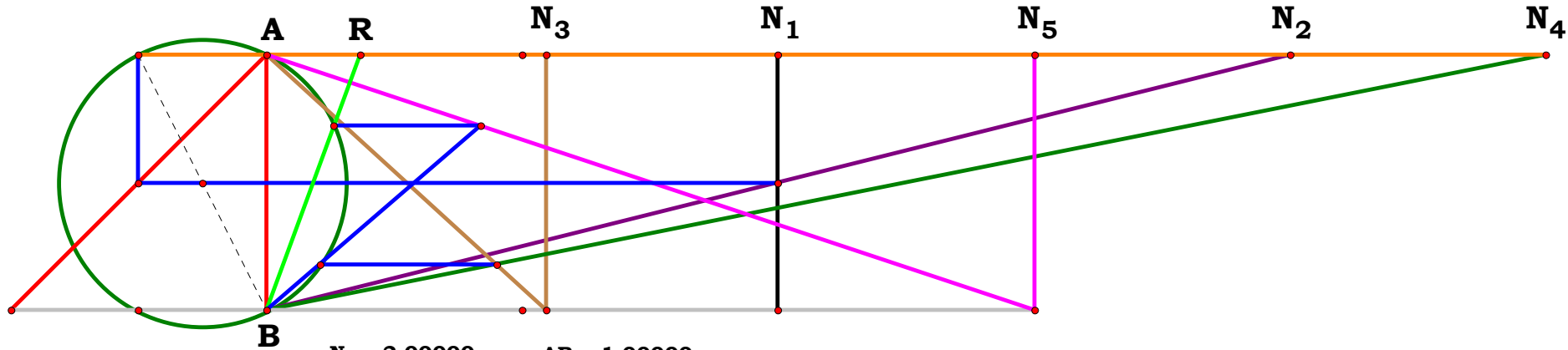
Unit. AB := 1 Given. N₁ := .60761 N₂ := 1.64399 N₃ := .99009 N₄ := 2.67305
N₅ := 1.35601

Descriptions.

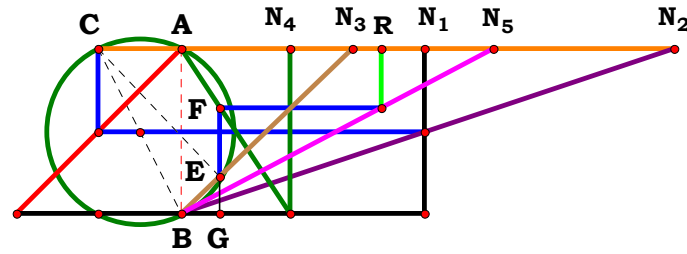
$$\begin{aligned} AC &:= \frac{N_2 - N_1}{N_2} & BM &:= \frac{N_3 \cdot AB}{N_3 + N_4} \\ EO &:= \sqrt{AB^2 + AC^2} & KO &:= BM + \frac{EO - AB}{2} \\ KN &:= \sqrt{KO \cdot (EO - KO)} & MN &:= KN - \frac{AC}{2} \\ AP &:= \frac{MN \cdot AB}{BM} & BG &:= \frac{N_5 \cdot AB}{AP + N_5} \\ FO &:= BG + \frac{EO - AB}{2} \\ FH &:= \sqrt{FO \cdot (EO - FO)} \\ GH &:= FH - \frac{AC}{2} \\ R &:= \frac{GH \cdot AB}{BG} \end{aligned}$$

R = 0.430132

Definitions.



N ₁ = 2.00000	AB = 1.00000	MN = 0.20804	$R - \frac{AB \cdot GH}{BG} = 0.00000$
N ₂ = 4.00000	AC = 0.50000	AP = 1.15878	
N ₃ = 1.09412	BM = 0.17954	BG = 0.72137	
N ₄ = 5.00000	EO = 1.11803	FO = 0.78038	
N ₅ = 3.00000	KO = 0.23855	FH = 0.51332	
R = 0.36503	KN = 0.45804	GH = 0.26332	



$N_1 = 1.46965$
 $N_2 = 2.98063$
 $N_3 = 1.03851$
 $N_4 = 0.65840$
 $N_5 = 1.88873$
 $R = 1.21000$

Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.98063$ $N_3 := 1.03851$ $N_4 := .65840$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := 1.88873$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_3 := N_3 + AC$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{AB \cdot (N_4 - BG)}{N_4}$$

$$R := \frac{N_5 \cdot FG}{AB} \quad R = 1.209993$$

Definitions.

$$R - \frac{N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + AC \cdot N_3^2)}{N_4 \cdot (N_3^2 + 1)} = 0$$

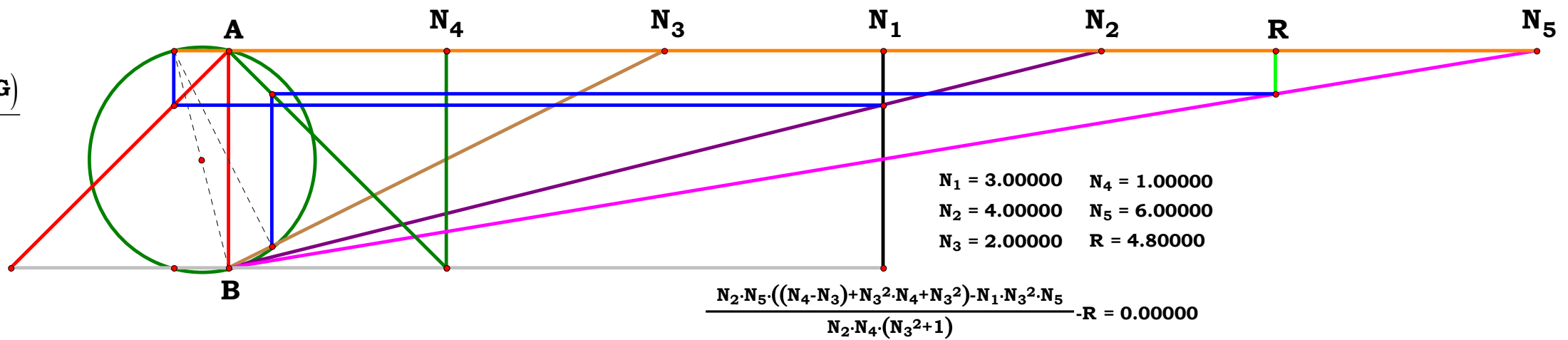
$$R - \frac{N_2 \cdot N_5 \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + N_3^2) - N_1 \cdot N_3^2 \cdot N_5}{N_2 \cdot N_4 \cdot (N_3^2 + 1)} = 0$$

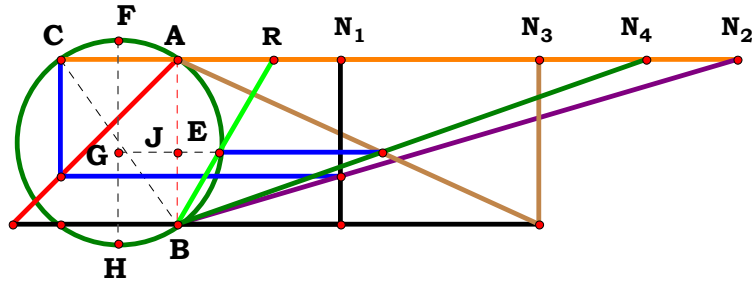
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot C \cdot N_u \cdot (C - D) + N_u \cdot [N_u \cdot [D \cdot (A - B) + A \cdot N_u]]}{A \cdot E \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2) - X \cdot Z \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)}{W \cdot Y \cdot l \cdot p \cdot (X^2 + n^2)} = 0$$





$$\begin{aligned} N_1 &= 0.98536 \\ N_2 &= 3.38743 \\ N_3 &= 2.19112 \\ N_4 &= 2.83771 \\ R &= 0.58528 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .98536 \quad N_2 := 3.38743 \quad N_3 := 2.19112$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$N_4 := 2.83771$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BJ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$FH := \sqrt{AB^2 + AC^2} \quad GH := BJ + \frac{FH - AB}{2}$$

$$GE := \sqrt{GH \cdot (FH - GH)} \quad JE := GE - \frac{AC}{2}$$

$$R := \frac{JE \cdot AB}{BJ} \quad R = 0.585284$$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot N_3^2 + 2 \cdot AC^2 \cdot N_3 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_3 \cdot N_4} - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)}{2 \cdot N_3 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

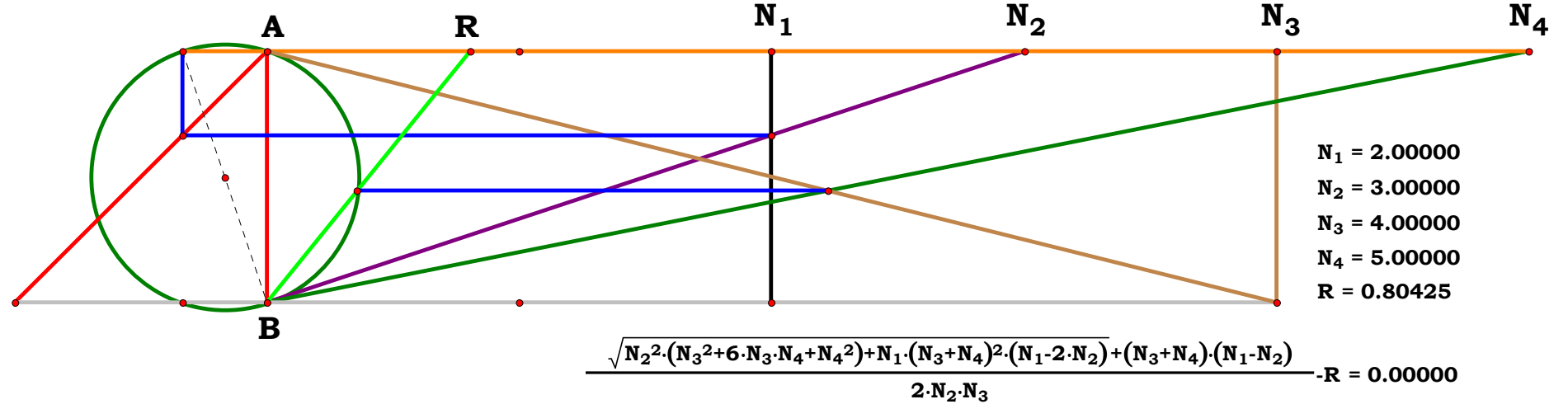
$$R - \frac{\sqrt{N_2^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_1 \cdot (N_3 + N_4)^2 \cdot (N_1 - 2 \cdot N_2) + (N_3 + N_4) \cdot (N_1 - N_2)}}{2 \cdot N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - A \cdot (C + D) + B \cdot (C + D)}{2 \cdot A \cdot D} = 0$$

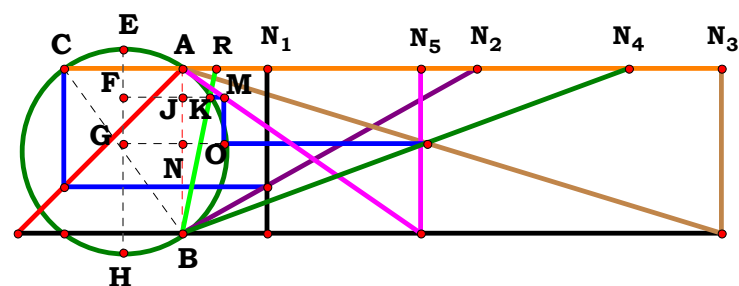
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{W \cdot n \cdot (Y + N_4 \cdot o)^2 \cdot (W \cdot n - 2 \cdot X \cdot m) + X^2 \cdot m^2 \cdot (N_4^2 \cdot o^2 + 6 \cdot N_4 \cdot Y \cdot o + Y^2)} + (Y + N_4 \cdot o) \cdot (W \cdot n - X \cdot m)}{2 \cdot X \cdot Y \cdot m} = 0$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ N_3 &= 4.00000 \\ N_4 &= 5.00000 \\ R &= 0.80425 \end{aligned}$$

$$\frac{\sqrt{N_2^2 \cdot (N_3^2 + 6 \cdot N_3 \cdot N_4 + N_4^2) + N_1 \cdot (N_3 + N_4)^2 \cdot (N_1 - 2 \cdot N_2) + (N_3 + N_4) \cdot (N_1 - N_2)}}{2 \cdot N_2 \cdot N_3} - R = 0.00000$$



N₁ = 0.51075
N₂ = 1.77959
N₃ = 3.26624
N₄ = 2.70210
N₅ = 1.44318
R = 0.20164

Unit. AB := 1 Given. $N_1 := .51075$ $N_2 := 1.77959$ $N_3 := 3.26624$ $N_4 := 2.70210$
 $N_5 := 1.44318$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

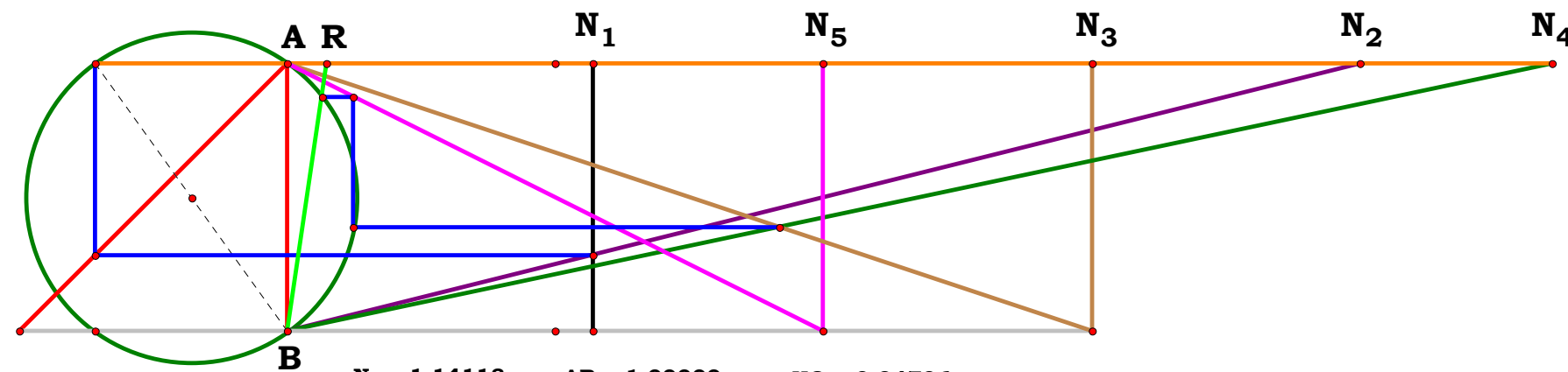
$$\mathbf{BN} := \frac{\mathbf{AB} \cdot \mathbf{N}_3}{\mathbf{N}_3 + \mathbf{N}_4} \qquad \mathbf{GH} := \mathbf{BN} + \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{GO} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})} \qquad \mathbf{NO} := \mathbf{GO} - \frac{\mathbf{AC}}{2}$$

$$\mathbf{BK} := \frac{\mathbf{AB} \cdot (\mathbf{N}_5 - \mathbf{NO})}{\mathbf{N}_5} \quad \mathbf{FH} := \mathbf{BK} + \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{FK} := \sqrt{\mathbf{FH} \cdot (\mathbf{EH} - \mathbf{FH})} \quad \mathbf{JK} := \mathbf{FK} - \frac{\mathbf{AC}}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.201637$$

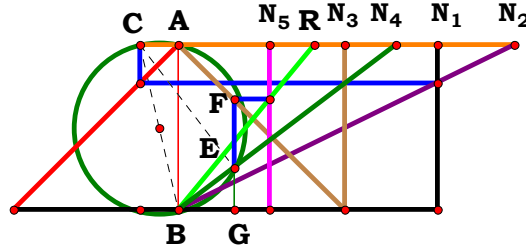


N₁ = 1.14118
N₂ = 4.00000
N₃ = 3.00000
N₄ = 4.71764
N₅ = 2.00000
R = 0.14652

AB = 1.00000
AC = 0.71470
EH = 1.22915
BN = 0.38872
GH = 0.50329
GO = 0.60441

NO = 0.24706
BK = 0.87647
FH = 0.99104
FK = 0.48577
JK = 0.12842

$$R - \frac{AB \cdot JK}{BK} = 0.00000$$



$N_1 = 1.56650$
 $N_2 = 2.03142$
 $N_3 = 1.00946$
 $N_4 = 1.31704$
 $N_5 = 0.55209$
 $R = 0.82809$

Unit. $AB := 1$ Given. $N_1 := 1.56650$ $N_2 := 2.03142$ $N_3 := 1.00946$ $N_4 := 1.31740$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$N_5 := .55209$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_4 := N_4 + AC$$

$$BN_4 := \sqrt{N_4^2 + AB^2} \quad EN_4 := \frac{N_4 \cdot CN_4}{BN_4}$$

$$BG := N_4 \cdot \frac{(BN_4 - EN_4)}{BN_4} \quad FG := AB \cdot \frac{(N_3 - BG)}{N_3}$$

$$R := \frac{N_5 \cdot AB}{FG} \quad R = 0.82801$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_3 - N_4 + N_3 \cdot N_4^2 + AC \cdot N_4^2} = 0$$

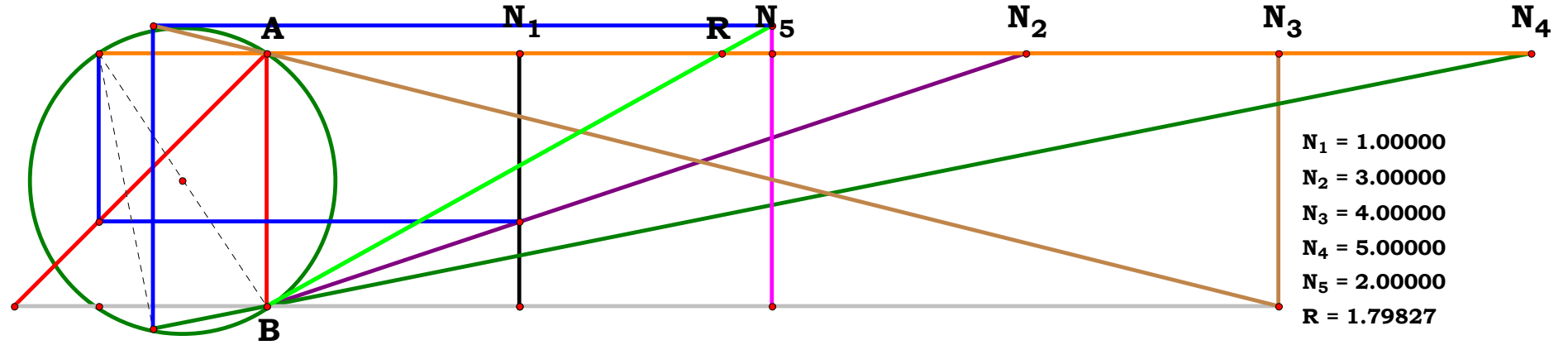
$$R - \frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{(N_2 - N_1 + N_2 \cdot N_3) \cdot N_4^2 + N_2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (D^2 + N_u^2)}{E \cdot (A \cdot D^2 + A \cdot N_u^2 - A \cdot C \cdot D + A \cdot C \cdot N_u - B \cdot C \cdot N_u)} = 0$$

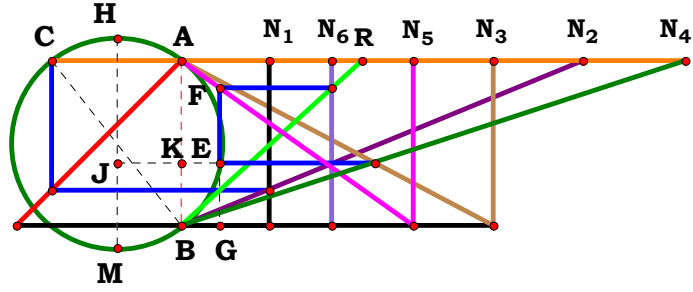
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot l \cdot (Y^2 + o^2)}{p \cdot [W \cdot l \cdot (X \cdot Y^2 + X \cdot o^2 + Y^2 \cdot n - Y \cdot n \cdot o) - V \cdot Y^2 \cdot m \cdot n]} = 0$$



$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $N_5 = 2.00000$
 $R = 1.79827$

$$\frac{N_2 \cdot N_3 \cdot N_5 \cdot (N_4^2 + 1)}{N_4^2 \cdot ((N_2 - N_1) + N_2 \cdot N_3) + N_2 \cdot (N_3 - N_4)} - R = 0.00000$$



$N_1 = 0.53013$
 $N_2 = 2.42854$
 $N_3 = 1.89086$
 $N_4 = 3.05079$
 $N_5 = 1.40444$
 $N_6 = 0.91046$
 $R = 1.09141$

Unit. $AB := 1$ Given. $N_1 := .53013$ $N_2 := 2.42854$ $N_3 := 1.89086$ $N_4 := 3.05079$
 $N_5 := 1.40444$ $N_6 := .91046$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EG := \frac{N_3 \cdot AB}{N_3 + N_4} \quad HM := \sqrt{AB^2 + AC^2}$$

$$JM := EG + \frac{HM - AB}{2} \quad JE := \sqrt{JM \cdot (HM - JM)}$$

$$BG := JE - \frac{AC}{2} \quad FG := \frac{AB \cdot (N_5 - BG)}{N_5}$$

$$R := \frac{N_6 \cdot AB}{FG} \quad R = 1.091401$$

Definitions.

$$R - \frac{2 \cdot N_5 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 \cdot (AC + 2 \cdot N_5) - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4}}} = 0$$

$$R - \frac{2 \cdot N_2 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot (N_2 - N_1 + 2 \cdot N_2 \cdot N_5) - \sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2)}} = 0$$

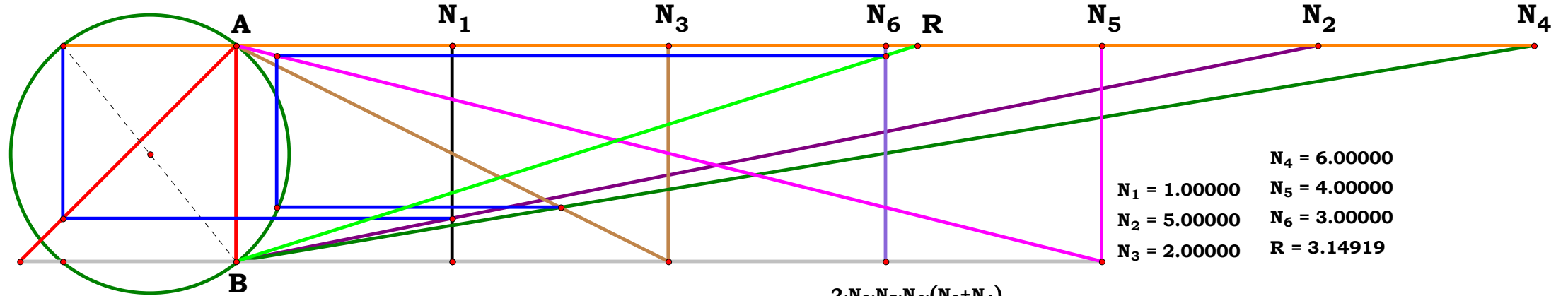
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot (C + D)}{2 \cdot N_u \cdot A \cdot F \cdot (C + D) + F \cdot E \cdot [(C + D) \cdot (A - B) - \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

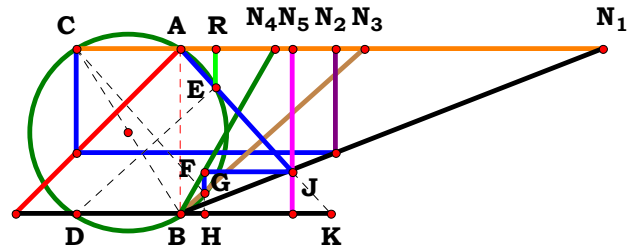
$$R - \frac{2 \cdot V \cdot Y \cdot Z \cdot k \cdot (W \cdot n + X \cdot m)}{p \cdot [(W \cdot n + X \cdot m) \cdot (2 \cdot V \cdot Y \cdot k - U \cdot l \cdot o + V \cdot k \cdot o) - o \cdot \sqrt{(W^2 \cdot n^2 + X^2 \cdot m^2) \cdot (U \cdot l - V \cdot k)^2 + 2 \cdot W \cdot X \cdot m \cdot n \cdot (U^2 \cdot l^2 - 2 \cdot U \cdot V \cdot k \cdot l + 3 \cdot V^2 \cdot k^2)}]} = 0$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$



$N_4 = 6.00000$
 $N_1 = 1.00000$ $N_5 = 4.00000$
 $N_2 = 5.00000$ $N_6 = 3.00000$
 $N_3 = 2.00000$ $R = 3.14919$

$$\frac{2 \cdot N_2 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4)}{(N_3 + N_4) \cdot ((N_2 - N_1) + 2 \cdot N_2 \cdot N_5) - \sqrt{(N_3^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot ((N_1^2 - 2 \cdot N_1 \cdot N_2) + 3 \cdot N_2^2)}} - R = 0.00000$$



$N_1 = 2.55445$
 $N_2 = 0.93693$
 $N_3 = 1.11600$
 $N_4 = 0.57123$
 $N_5 = 0.67800$
 $R = 0.21085$

Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := .93693$ $N_3 := 1.11600$
 $N_4 := .57123$ $N_5 := .67800$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

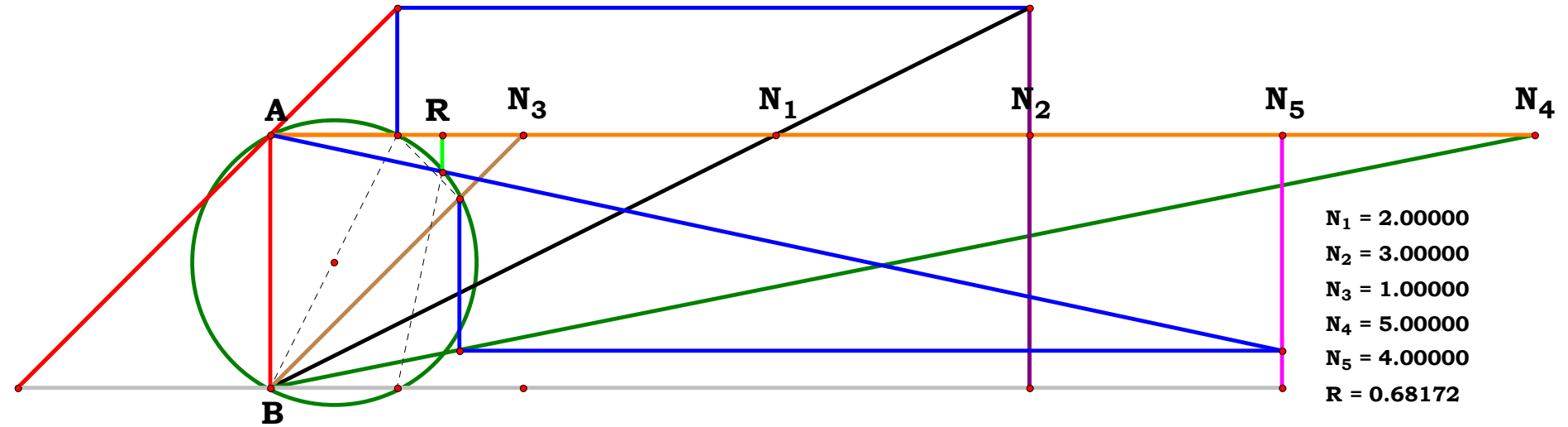
$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$GN_3 := \frac{N_3 \cdot (N_3 + AC)}{BN_3} \quad BG := BN_3 - GN_3$$

$$BH := \frac{N_3 \cdot BG}{BN_3} \quad FH := \frac{BH}{N_4} \quad BK := \frac{N_5}{AB - FH}$$

$$AK := \sqrt{AB^2 + BK^2} \quad EK := \frac{BK \cdot (BK + AC)}{AK}$$

$$AE := AK - EK \quad R := \frac{BK \cdot AE}{AK} \quad R = 0.210851$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 5.00000$
 $N_5 = 4.00000$
 $R = 0.68172$

Definitions.

$$\frac{(N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)) \cdot (N_3^2 \cdot ((N_1 - N_2) + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)) - (N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2))}{(N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))^2 + (N_1 \cdot N_4 \cdot (N_3^2 + 1))^2 + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)) + (N_3 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3))^2} - R = 0.00000$$

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_4 - N_3 + N_3^2 \cdot N_4 + N_3^2 \cdot AC - N_4 \cdot N_5 \cdot AC - N_3^2 \cdot N_4 \cdot N_5 \cdot AC)}{N_3^4 \cdot N_4^2 \cdot N_5^2 + N_3^4 \cdot N_4^2 + 2 \cdot N_3^4 \cdot N_4 \cdot AC + N_3^4 \cdot AC^2 - 2 \cdot N_3^3 \cdot N_4 - 2 \cdot N_3^3 \cdot AC + 2 \cdot N_3^2 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_3^2 \cdot N_4^2 + 2 \cdot N_3^2 \cdot N_4 \cdot AC + N_3^2 - 2 \cdot N_3 \cdot N_4 + N_4^2 \cdot N_5^2 + N_4^2} = 0$$

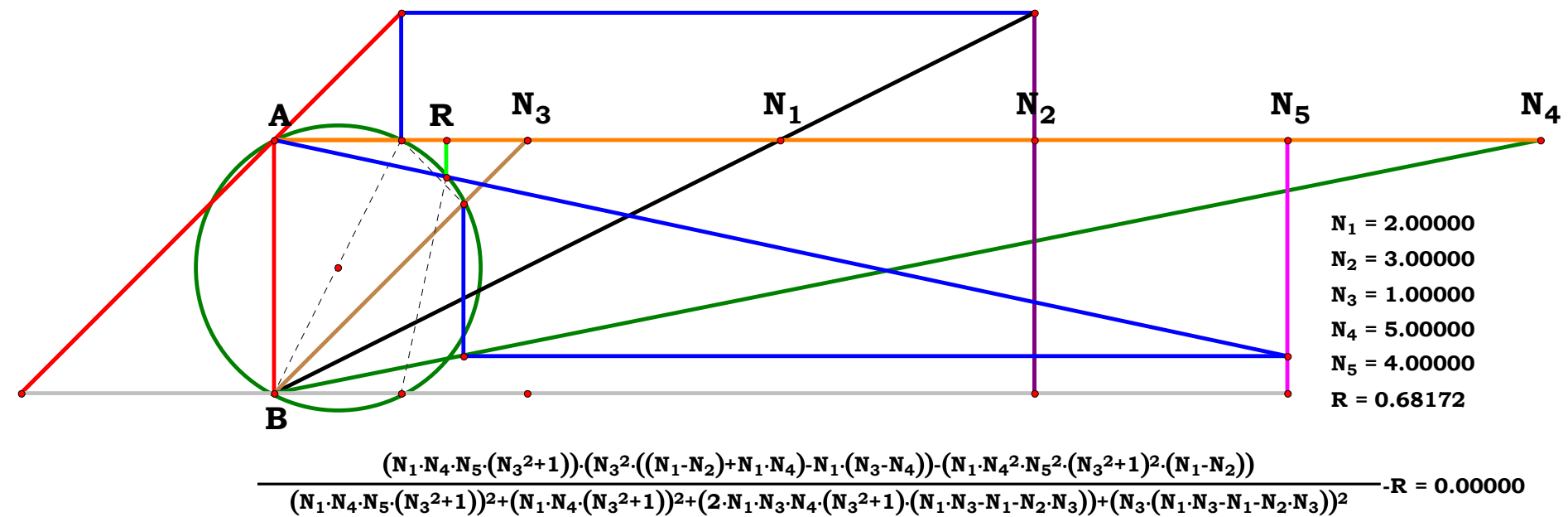
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)] - N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2)}{N_5^2 \cdot N_1^2 \cdot N_4^2 \cdot (N_3^2 + 1)^2 + N_1^2 \cdot N_4^2 \cdot (N_3^2 + 1)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) + N_3^2 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)^2} = 0$$

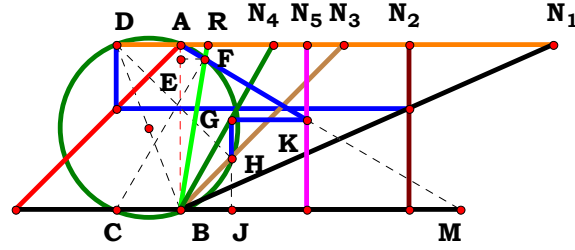
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot B \cdot N_u \cdot (C^2 + N_u^2) \cdot [[N_u \cdot (B - A) - B \cdot C] \cdot D + B \cdot (C^2 + N_u^2)] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B)}{[D \cdot [B \cdot C + N_u \cdot (A - B)] - [B \cdot (C^2 + N_u^2)]]^2 \cdot E^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{V}}{1} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{V} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot (\mathbf{X}^2 + \mathbf{n}^2) \cdot [\mathbf{Z} \cdot \mathbf{Y} \cdot (\mathbf{X}^2 + \mathbf{n}^2) \cdot (\mathbf{W} \cdot \mathbf{l} - \mathbf{V} \cdot \mathbf{m}) + \mathbf{X}^2 \cdot \mathbf{p} \cdot (\mathbf{V} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{V} \cdot \mathbf{m} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{l} \cdot \mathbf{o}) + \mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n} \cdot \mathbf{p} \cdot (\mathbf{Y} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{o})]}{\mathbf{V}^2 \cdot \mathbf{Y}^2 \cdot \mathbf{m}^2 \cdot (\mathbf{X}^2 + \mathbf{n}^2)^2 \cdot (\mathbf{Z}^2 + \mathbf{p}^2) + 2 \cdot \mathbf{Y} \cdot \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o} \cdot \mathbf{p}^2 \cdot (\mathbf{X}^2 + \mathbf{n}^2) \cdot (\mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} - \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} - \mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n}) + \mathbf{X}^2 \cdot \mathbf{o}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} - \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} - \mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n})^2} = 0$$





$N_1 = 2.25419$
 $N_2 = 1.38247$
 $N_3 = 0.99009$
 $N_4 = 0.56155$
 $N_5 = 0.76518$
 $R = 0.16461$

Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 1.38247$ $N_3 := .99009$

$N_4 := .56155$ $N_5 := .76518$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BH := BN_3 - HN_3$$

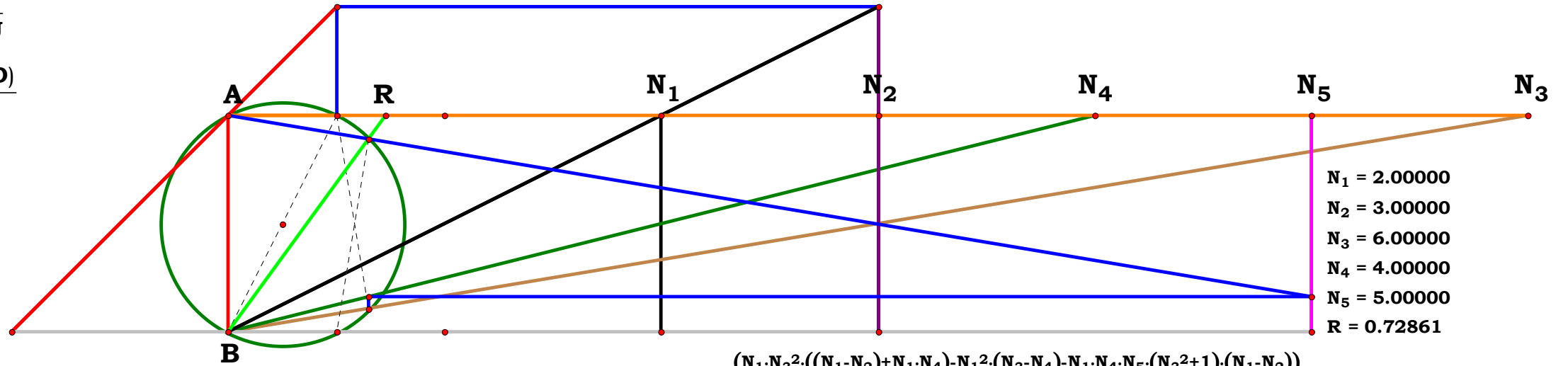
$$BJ := \frac{N_3 \cdot BH}{BN_3} \quad GJ := \frac{BJ}{N_4} \quad BM := \frac{N_5}{AB - GJ}$$

$$AM := \sqrt{AB^2 + BM^2} \quad FM := \frac{BM \cdot (BM + AD)}{AM}$$

$$AF := AM - FM \quad EF := \frac{BM \cdot AF}{AM}$$

$$AE := \frac{AF}{AM} \quad R := \frac{EF}{AB - AE}$$

$$R = 0.164617$$



Definitions.

$$R - \frac{N_4 - N_3 + N_3^2 \cdot N_4 + N_3^2 \cdot AD - N_4 \cdot N_5 \cdot AD - N_3^2 \cdot N_4 \cdot N_5 \cdot AD}{N_3^2 \cdot AD^2 + N_4 \cdot N_3^2 \cdot AD + N_4 \cdot N_5 \cdot N_3^2 - N_3 \cdot AD + N_4 \cdot AD + N_4 \cdot N_5} = 0$$

$$R - \frac{N_1 \cdot N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1^2 \cdot (N_3 - N_4) - N_5 \cdot N_1 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2)}{N_1 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2 + N_1 \cdot N_5) + N_3 \cdot (N_1 - N_2) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)} = 0$$

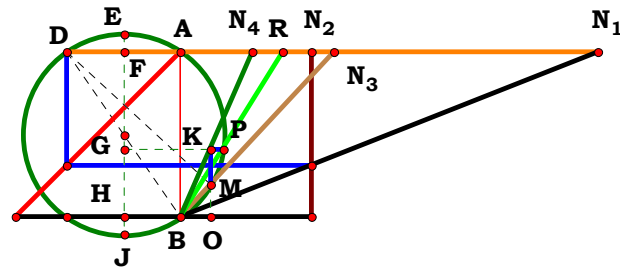
$$R - \frac{E \cdot [B \cdot (B \cdot C^2 + B \cdot N_u^2 - B \cdot C \cdot D - A \cdot D \cdot N_u + B \cdot D \cdot N_u)] + B \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)}{B^2 \cdot N_u^3 + E \cdot [(A - B) \cdot (B \cdot C \cdot D - B \cdot N_u^2 - B \cdot C^2 + A \cdot D \cdot N_u - B \cdot D \cdot N_u)] + B^2 \cdot C^2 \cdot N_u} = 0$$

$$R - \frac{V \cdot m \cdot [Z \cdot Y \cdot (X^2 + n^2) \cdot (W \cdot l - V \cdot m) + V \cdot m \cdot p \cdot (X^2 \cdot Y + Y \cdot n^2 + X^2 \cdot o - X \cdot n \cdot o) - W \cdot X^2 \cdot l \cdot o \cdot p]}{Z \cdot V^2 \cdot Y \cdot m^2 \cdot (X^2 + n^2) + Y \cdot V \cdot m \cdot p \cdot (X^2 + n^2) \cdot (V \cdot m - W \cdot l) + X \cdot o \cdot p \cdot (V \cdot m - W \cdot l) \cdot (V \cdot X \cdot m - W \cdot X \cdot l - V \cdot m \cdot n)} = 0$$

$$\frac{(N_1 \cdot N_3^2 \cdot ((N_1 - N_2) + N_1 \cdot N_4) - N_1^2 \cdot (N_3 - N_4) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2))}{(N_1 \cdot N_4 \cdot (N_3^2 + 1) \cdot ((N_1 - N_2) + N_1 \cdot N_5) + N_3 \cdot (N_1 - N_2) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3))} - R = 0.00000$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$



$N_1 = 2.52540$
 $N_2 = 0.79164$
 $N_3 = 0.93197$
 $N_4 = 0.43563$
 $R = 0.62289$

Unit. $AB := 1$ Given. $N_1 := 2.52540$ $N_2 := .79164$ $N_3 := .93197$ $N_4 := .43563$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AD := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AD^2} \quad EF := \frac{EJ - AB}{2}$$

$$BN_3 := \sqrt{AB^2 + N_3^2} \quad MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BM := BN_3 - MN_3 \quad BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4}$$

$$GJ := KO + EF \quad EG := EJ - GJ$$

$$GP := \sqrt{EG \cdot GJ} \quad R := \frac{(2 \cdot GP - AD)}{2 \cdot KO} \quad R = 0.622889$$

Definitions.

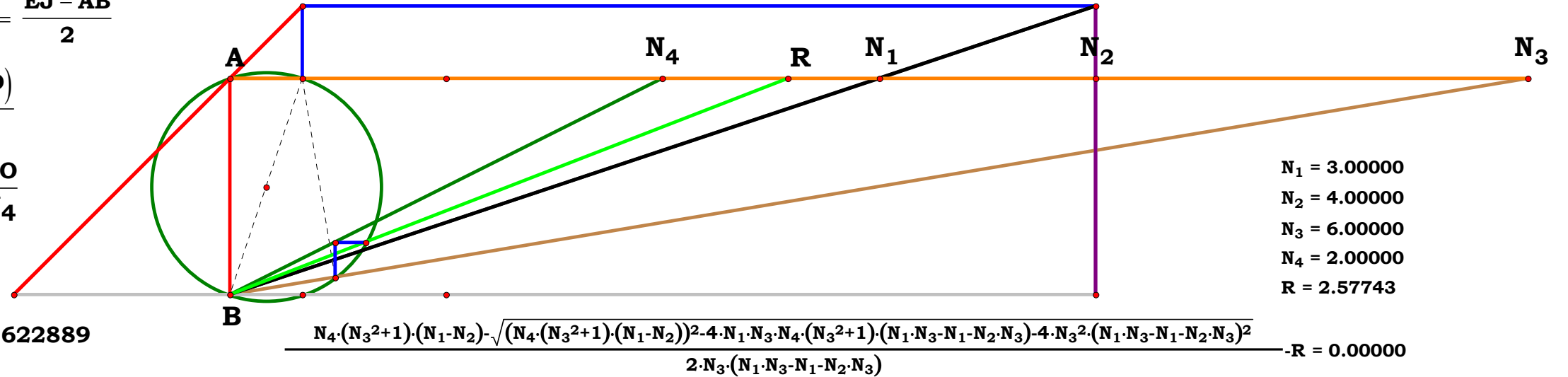
$$R - \frac{\sqrt{N_4^2 \cdot AD \cdot N_4 \cdot (N_3^2 + 1)} - N_4 \cdot \sqrt{N_3 \cdot N_4 \cdot [AD \cdot N_3 \cdot (2 \cdot AD \cdot N_4 - 4 \cdot N_3^2 + AD \cdot N_3^2 \cdot N_4 - 4) + 4 \cdot N_3^2 + 4] + 4 \cdot N_3^2 \cdot [AD \cdot N_3 \cdot (2 - AD \cdot N_3) - 1] + AD^2 \cdot N_4^2}}{2 \cdot \sqrt{N_4^2 \cdot N_3 \cdot (AD \cdot N_3 - 1)}} = 0$$

$$R - \frac{N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2) - \sqrt{N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_3^2 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)^2 + 4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}}{2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

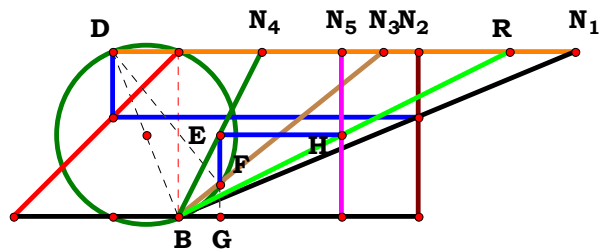
$$R - \frac{\sqrt{(C^2 + N_u^2)^2 \cdot (A - B)^2 + 4 \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] \cdot [N_u \cdot [B \cdot N_u - D \cdot (A - B)] + B \cdot C \cdot (C - D)] + (C^2 + N_u^2) \cdot (A - B)}}{2 \cdot D \cdot [B \cdot C + N_u \cdot (A - B)]} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (Y^2 + o^2) \cdot (W \cdot n - X \cdot m) - \sqrt{Z^2 \cdot (Y^2 + o^2)^2 \cdot (W \cdot n - X \cdot m)^2 - 4 \cdot Z \cdot W \cdot Y \cdot n \cdot p \cdot (Y^2 + o^2) \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m - W \cdot n \cdot o) - 4 \cdot Y^2 \cdot p^2 \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m - W \cdot n \cdot o)^2}}{2 \cdot Y \cdot p \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m - W \cdot n \cdot o)} = 0$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 6.00000$
 $N_4 = 2.00000$
 $R = 2.57743$

$-R = 0.00000$



N₁ = 2.39948
N₂ = 1.45027
N₃ = 1.24192
N₄ = 0.50343
N₅ = 0.98795
R = 2.00146

Unit. AB := 1 Given. N₁ := 2.39948 N₂ := 1.45027 N₃ := 1.24192 N₄ := .50343
N₅ := .98795
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$
V := 17 W := 20 X := 19 Y := 18 Z := 17 l := $\frac{V}{N_1}$ m := $\frac{W}{N_2}$ n := $\frac{X}{N_3}$ o := $\frac{Y}{N_4}$ p := $\frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 2.001469$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (1 - AD \cdot N_3)} = 0$$

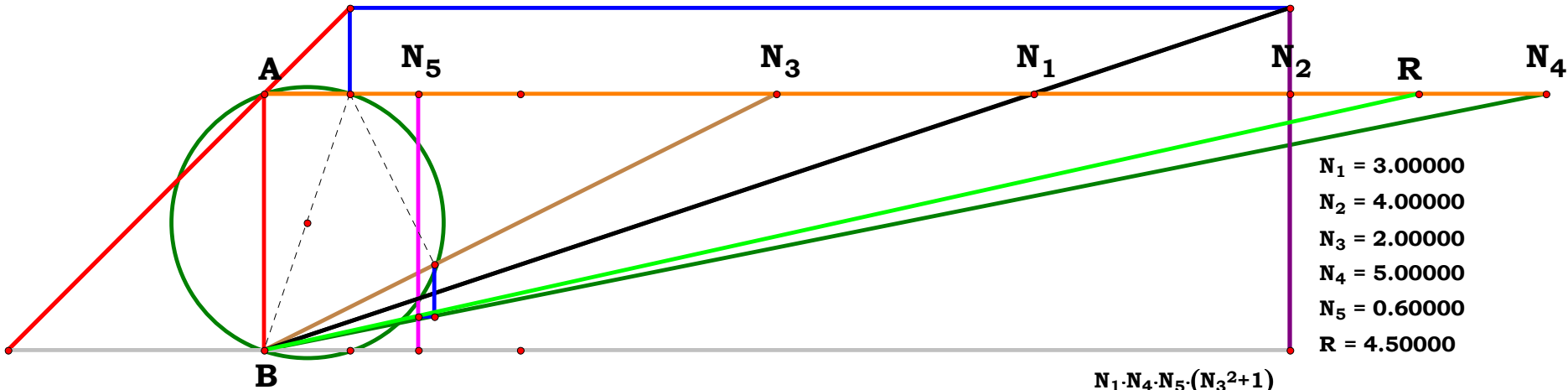
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]} = 0$$

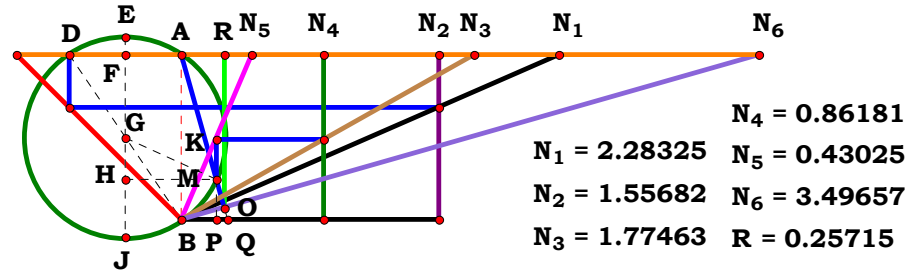
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)}{X \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$



N₁ = 3.00000
N₂ = 4.00000
N₃ = 2.00000
N₄ = 5.00000
N₅ = 0.60000
R = 4.50000

$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.28325$ $N_2 := 1.55682$ $N_3 := 1.77463$
 $N_4 := .86181$ $N_5 := .43025$ $N_6 := 3.49657$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$AD := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AD^2} \quad AF := \frac{AD}{2}$$

$$BP := N_5 \cdot \frac{N_4}{N_3} \quad HM := AF + BP$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - HM^2} \quad FH := \frac{AB}{2} + GH$$

$$BQ := \frac{HM - AF}{FH} \quad R := \frac{BQ \cdot N_6}{BQ + N_6} \quad R = 0.25716$$

Definitions.

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \sqrt{N_3^2}}{\sqrt{N_3^2 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) + N_3 \cdot N_6 \cdot \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2}}} = 0$$

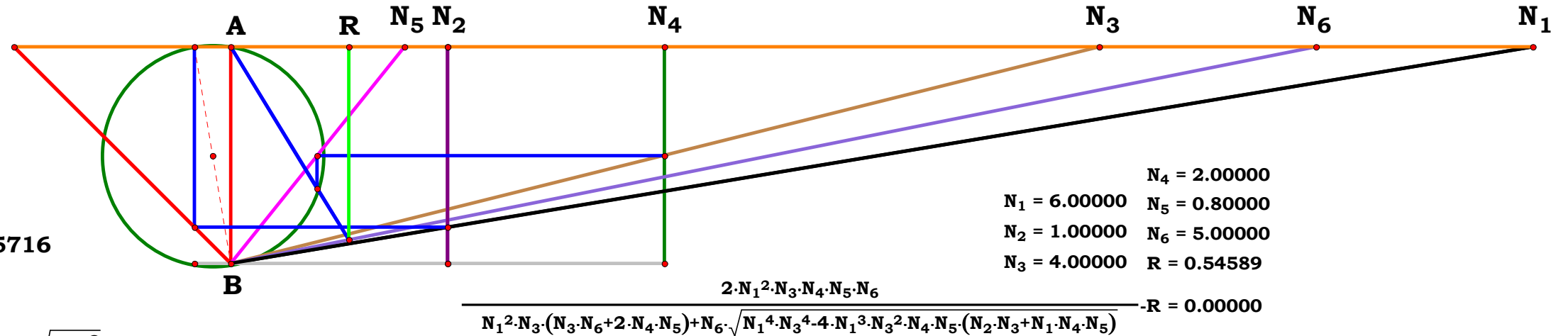
$$R - \frac{2 \cdot N_1^2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot N_6}{N_6 \cdot \sqrt{N_1^4 \cdot N_3^4 - 4 \cdot N_1^3 \cdot N_3^2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5) + N_1^2 \cdot N_3 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot \sqrt{B}}{\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u) + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E)}} = 0 \quad N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot U^2 \cdot W \cdot X \cdot Y \cdot Z \cdot m \cdot \sqrt{1}}{Z \cdot \sqrt{U^3 \cdot W^2 \cdot (U \cdot l \cdot W^2 \cdot n^2 \cdot o^2 - 4 \cdot V \cdot k \cdot W \cdot X \cdot Y \cdot m \cdot n \cdot o - 4 \cdot U \cdot l \cdot X^2 \cdot Y^2 \cdot m^2) + \sqrt{1} \cdot U^2 \cdot W \cdot (W \cdot Z \cdot n \cdot o + 2 \cdot X \cdot Y \cdot m \cdot p)}} = 0$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



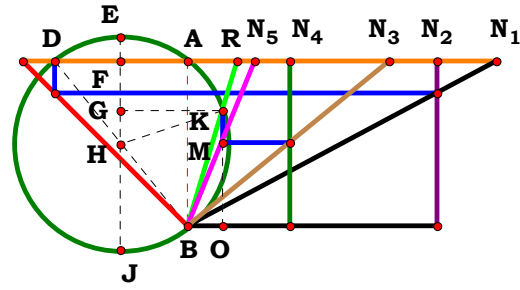
$$N_4 = 2.00000$$

$$N_1 = 6.00000 \quad N_5 = 0.80000$$

$$N_2 = 1.00000 \quad N_6 = 5.00000$$

$$N_3 = 4.00000 \quad R = 0.54589$$

$$\frac{2 \cdot N_1^2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot N_6}{N_1^2 \cdot N_3 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) + N_6 \cdot \sqrt{N_1^4 \cdot N_3^4 - 4 \cdot N_1^3 \cdot N_3^2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)}} - R = 0.00000$$



$N_1 = 1.86676$
 $N_2 = 1.50839$
 $N_3 = 1.22254$
 $N_4 = 0.61966$
 $N_5 = 0.41087$
 $R = 0.29929$

Unit. $AB := 1$ Given. $N_1 := 1.86676$ $N_2 := 1.50839$ $N_3 := 1.22254$ $N_4 := .61966$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .41087$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$GK := \frac{AD}{2} + BO \quad EJ := \sqrt{AB^2 + AD^2}$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - GK^2} \quad EF := \frac{EJ - AB}{2}$$

$$KO := \frac{EJ}{2} + GH - EF \quad R := \frac{BO}{KO} \quad R = 0.299284$$

Definitions.

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{N_3^2}}{N_3 \cdot \left(\sqrt{N_3^2} + \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2} \right)} = 0$$

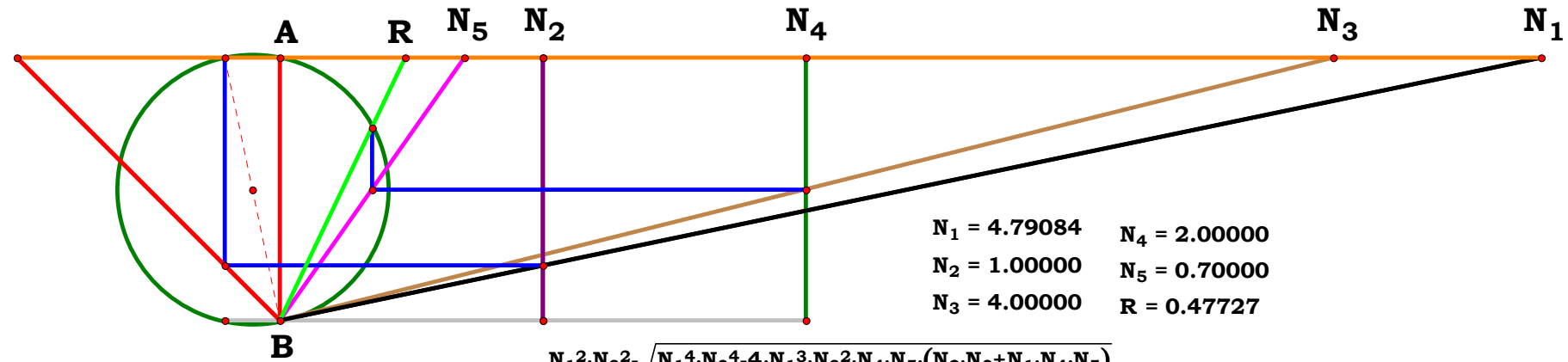
$$R - \frac{N_1^2 \cdot N_3^2 - \sqrt{N_1^4 \cdot N_3^4 - 4 \cdot N_1^3 \cdot N_3^2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)}}{2 \cdot N_1 \cdot N_3 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{\sqrt{B} \cdot \left[\sqrt{B \cdot D \cdot E} - \sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} \right]}{2 \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} = 0$$

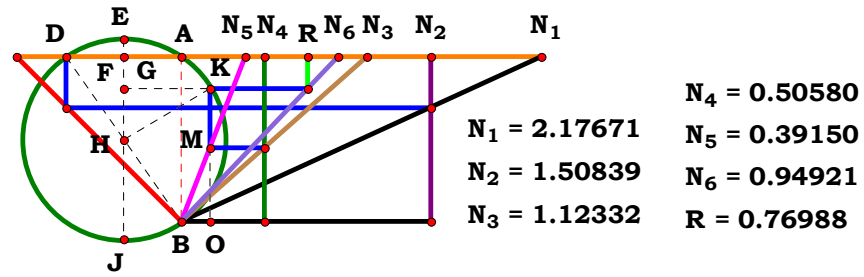
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{m} \cdot \left[V^2 \cdot X^2 \cdot \sqrt{m \cdot o \cdot p} - \sqrt{V^3 \cdot X^2 \cdot (V \cdot m \cdot X^2 \cdot o^2 \cdot p^2 - 4 \cdot W \cdot 1 \cdot X \cdot Y \cdot Z \cdot n \cdot o \cdot p - 4 \cdot V \cdot m \cdot Y^2 \cdot Z^2 \cdot n^2)} \right]}{2 \cdot V \cdot X \cdot (V \cdot Y \cdot Z \cdot m \cdot n + W \cdot X \cdot 1 \cdot o \cdot p)} = 0$$



$N_1 = 4.79084$ $N_4 = 2.00000$
 $N_2 = 1.00000$ $N_5 = 0.70000$
 $N_3 = 4.00000$ $R = 0.47727$

$$\frac{N_1^2 \cdot N_3^2 - \sqrt{N_1^4 \cdot N_3^4 - 4 \cdot N_1^3 \cdot N_3^2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)}}{2 \cdot N_1 \cdot N_3 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.17671$ $N_2 := 1.50839$ $N_3 := 1.12332$

$N_4 := .50580$ $N_5 := .39150$ $N_6 := .94921$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AD := \frac{N_2}{N_1} \quad MO := \frac{N_4}{N_3}$$

$$BO := N_5 \cdot MO \quad FK := BO + \frac{AD}{2}$$

$$EJ := \sqrt{AD^2 + AB^2} \quad HK := \frac{EJ}{2}$$

$$FH := \sqrt{HK^2 - FK^2} \quad EF := \frac{EJ - AB}{2}$$

$$KO := HK + FH - EF \quad R := N_6 \cdot KO \quad R = 0.76988$$

Definitions.

$$R - \frac{N_6 \cdot \left(\sqrt{N_3^2} + \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2} \right)}{2 \cdot \sqrt{N_3^2}} = 0$$

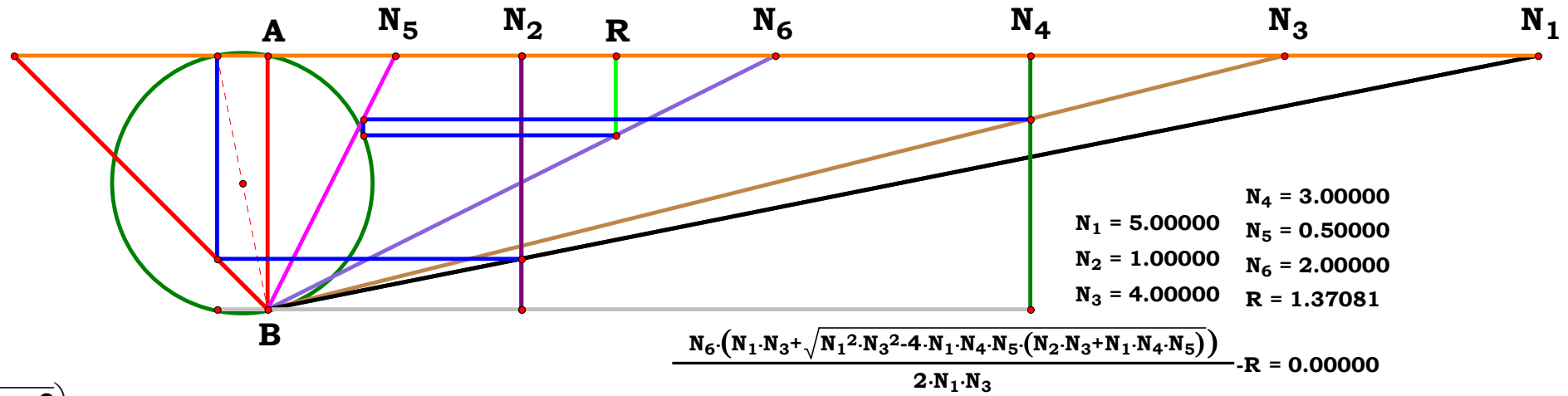
$$R - \frac{N_6 \cdot \left[\sqrt{N_1^2 \cdot N_3^2 - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)} + N_1 \cdot N_3 \right]}{2 \cdot (N_1 \cdot N_3)} = 0$$

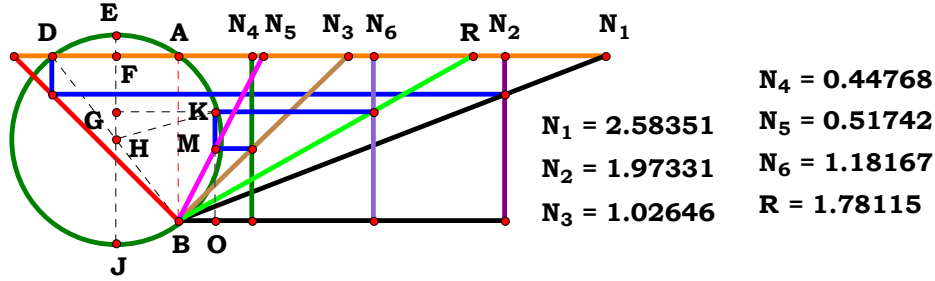
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right]}{2 \cdot F \cdot \sqrt{B \cdot D \cdot E}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{U \cdot (U \cdot l \cdot W^2 \cdot n^2 \cdot o^2 - 4 \cdot V \cdot k \cdot W \cdot X \cdot Y \cdot m \cdot n \cdot o - 4 \cdot U \cdot l \cdot X^2 \cdot Y^2 \cdot m^2)} \right] + U \cdot W \cdot \sqrt{l \cdot n \cdot o}}{2 \cdot U \cdot W \cdot \sqrt{l \cdot n \cdot o \cdot p}} = 0$$





Descriptions.

$$AD := \frac{N_2}{N_1} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$EJ := \sqrt{AD^2 + AB^2} \quad EF := \frac{EJ - AB}{2}$$

$$HK := \frac{EJ}{2} \quad GK := \frac{AD}{2} + BO \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := HK + GH - EF \quad R := \frac{N_6}{KO} \quad R = 1.78117$$

Definitions.

$$R - \frac{2 \cdot N_6 \cdot \sqrt{N_3^2}}{\sqrt{N_3^2 + \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2}}} = 0$$

$$R - \frac{2 \cdot N_6 \cdot (N_1 \cdot N_3)}{\sqrt{N_1^2 \cdot N_3^2 - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5) + N_1 \cdot N_3}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{B \cdot D \cdot E}}{F \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot N_u \cdot U \cdot W \cdot \sqrt{1 \cdot n \cdot o}}{F \cdot \left[\sqrt{-U \cdot (4 \cdot V \cdot k \cdot W \cdot X \cdot Y \cdot m \cdot n \cdot o - U \cdot l \cdot W^2 \cdot n^2 \cdot o^2 + 4 \cdot U \cdot l \cdot X^2 \cdot Y^2 \cdot m^2)} + U \cdot W \cdot \sqrt{1 \cdot n \cdot o} \right]} = 0$$

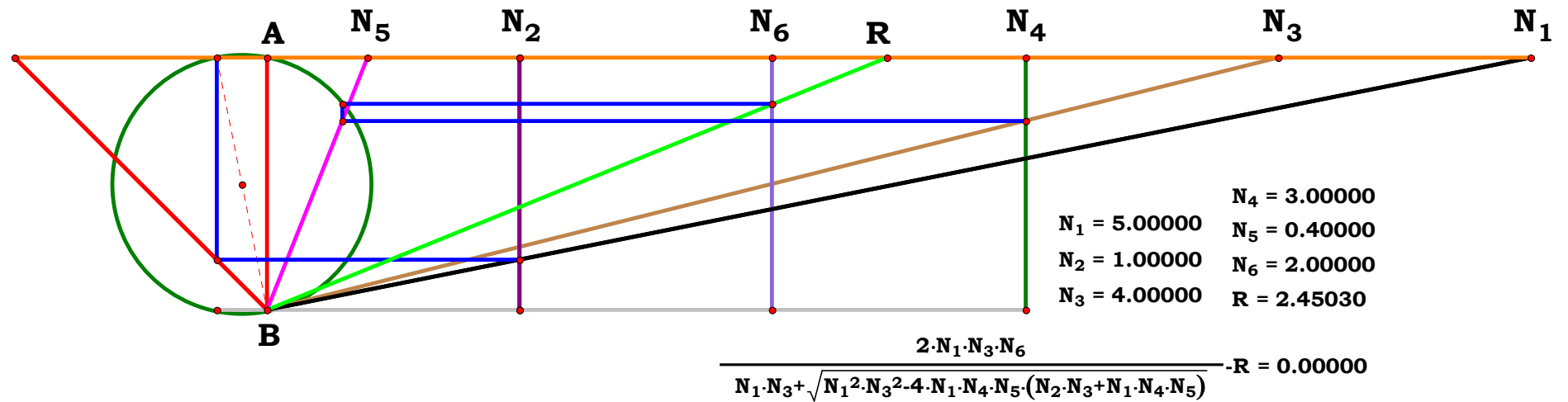
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.58351 \quad N_2 := 1.97331 \quad N_3 := 1.02646$$

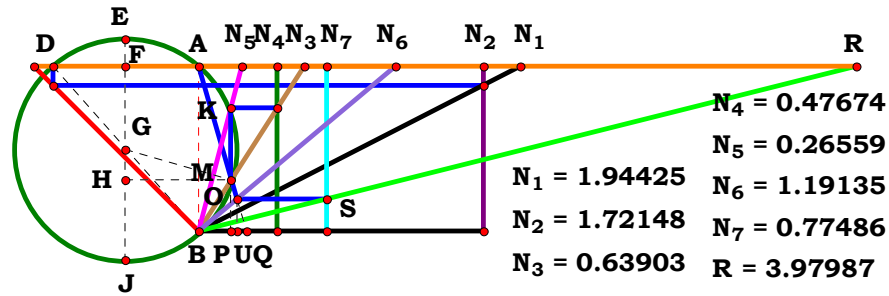
$$N_4 := .44768 \quad N_5 := .51742 \quad N_6 := 1.18167$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$




$$\mathbf{AD} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BP} := \mathbf{N}_5 \cdot \frac{\mathbf{N}_4}{\mathbf{N}_3} \quad \mathbf{EJ} := \sqrt{\mathbf{AD}^2 + \mathbf{AB}^2}$$

$$\mathbf{GH} := \sqrt{\mathbf{GM}^2 - \mathbf{HM}^2} \quad \mathbf{FH} := \mathbf{GM} + \mathbf{GH} - \mathbf{EF}$$

$$\mathbf{BQ} := \frac{\mathbf{BP}}{\mathbf{FH}} \quad \mathbf{BU} := \frac{\mathbf{N}_6 \cdot \mathbf{BQ}}{\mathbf{N}_6 + \mathbf{BQ}} \quad \mathbf{OU} := \frac{\mathbf{BU}}{\mathbf{N}_6}$$

$$R := \frac{N_7}{OU} \quad R = 3.979731$$

$$R - \frac{N_7 \cdot \left[\sqrt{N_3^2 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5)} + N_3 \cdot N_6 \cdot \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2} \right]}{2 \cdot N_4 \cdot N_5 \cdot \sqrt{N_3^2}} = 0$$

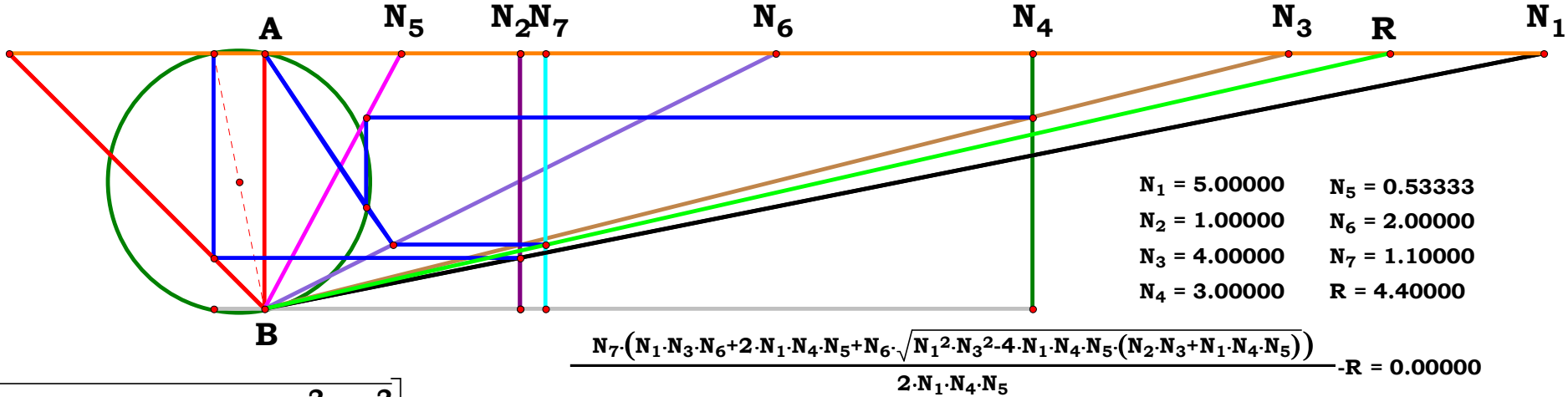
$$R - \frac{N_7 \cdot \left[N_6 \cdot \sqrt{N_1^2 \cdot N_3^2 - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)} + N_1 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) \right]}{2 \cdot N_1 \cdot N_4 \cdot N_5} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

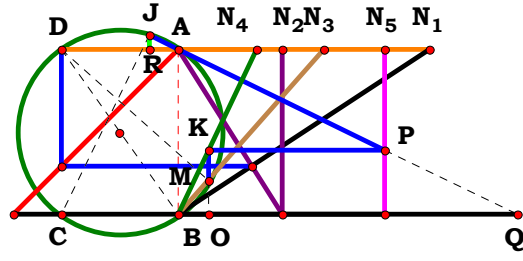
$$\mathbf{R} - \frac{\mathbf{N}_u \cdot \left[\sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 - 4 \cdot \mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u)} + \sqrt{\mathbf{B}} \cdot (2 \cdot \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E}) \right]}{2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \sqrt{\mathbf{B}}} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{Z} \cdot \left[\mathbf{Y} \cdot \sqrt{\left[\mathbf{T} \cdot \left(\mathbf{T} \cdot \mathbf{k} \cdot \mathbf{V}^2 \cdot \mathbf{m}^2 \cdot \mathbf{n}^2 - 4 \cdot \mathbf{U} \cdot \mathbf{j} \cdot \mathbf{V} \cdot \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} \cdot \mathbf{m} \cdot \mathbf{n} - 4 \cdot \mathbf{T} \cdot \mathbf{k} \cdot \mathbf{W}^2 \cdot \mathbf{X}^2 \cdot \mathbf{l}^2 \right)} \right] + \sqrt{\mathbf{k}} \cdot \mathbf{T} \cdot \left(\mathbf{V} \cdot \mathbf{Y} \cdot \mathbf{m} \cdot \mathbf{n} + 2 \cdot \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} \cdot \mathbf{o} \right)} \right]}{2 \cdot \mathbf{T} \cdot \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} \cdot \mathbf{o} \cdot \mathbf{p} \cdot \sqrt{\mathbf{k}}} = 0$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \quad \mathbf{G} := \frac{\mathbf{N_u}}{\mathbf{N_7}}$$
$$\mathbf{j} := \frac{\mathbf{T}}{N_1} \quad \mathbf{k} := \frac{\mathbf{U}}{N_2} \quad \mathbf{l} := \frac{\mathbf{V}}{N_3} \quad \mathbf{m} := \frac{\mathbf{W}}{N_4} \quad \mathbf{n} := \frac{\mathbf{X}}{N_5} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_6} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_7}$$


$$\frac{N_7 \cdot (N_1 \cdot N_3 \cdot N_6 + 2 \cdot N_1 \cdot N_4 \cdot N_5 + N_6 \cdot \sqrt{N_1^2 \cdot N_3^2 \cdot 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5)})}{2 \cdot N_1 \cdot N_4 \cdot N_5} - R = 0.00000$$



$N_1 = 1.51808$
 $N_2 = 0.62698$
 $N_3 = 0.88354$
 $N_4 = 0.47437$
 $N_5 = 1.24947$
 $R = -0.17873$

Unit. $AB := 1$ Given. $N_1 := 1.51808$ $N_2 := .62698$ $N_3 := .88354$ $N_4 := .47437$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := 1.24947$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

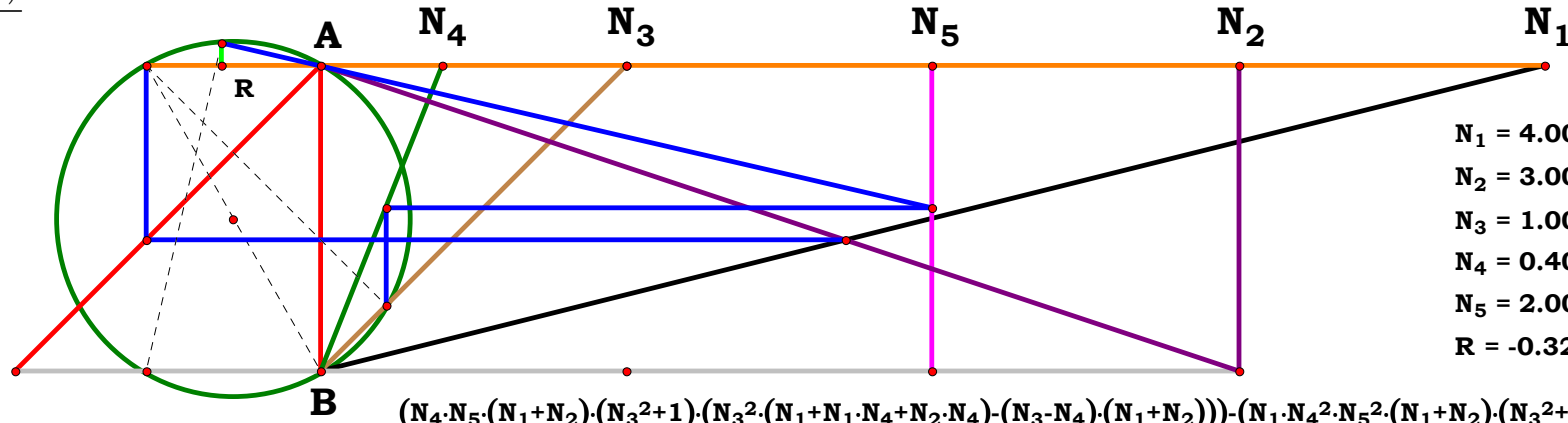
$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BM := BN_3 - MN_3 \quad BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4}$$

$$BQ := \frac{N_5}{AB - KO} \quad AQ := \sqrt{AB^2 + BQ^2}$$

$$JQ := \frac{BQ \cdot (BQ + AD)}{AQ} \quad AJ := AQ - JQ$$

$$R := \frac{BQ \cdot AJ}{AQ} \quad R = -0.178733$$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.40000$
 $N_5 = 2.00000$
 $R = -0.32194$

$$\frac{(N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2))) - (N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)^2)}{(N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_5^2 + 1) \cdot (N_1 + N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1 \cdot N_3 - N_2 - N_1) + N_3^2 \cdot (N_1 \cdot N_3 - N_2 - N_1)^2)} - R = 0.00000$$

Definitions.

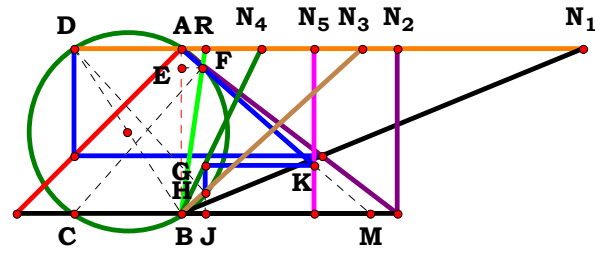
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot [N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2)] - N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)^2}{N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_5^2 + 1) \cdot (N_1 + N_2)^2 + 2 \cdot N_3 \cdot N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1 \cdot N_3 - N_2 - N_1) + N_3^2 \cdot (N_1 \cdot N_3 - N_2 - N_1)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot [E \cdot (A + B) \cdot N_u^2 - B \cdot N_u \cdot (C^2 - D \cdot E) - B \cdot N_u^3 + C \cdot E \cdot (C - D) \cdot (A + B)]}{E^2 \cdot [(A + B) \cdot N_u^2 + B \cdot D \cdot N_u + C \cdot (C - D) \cdot (A + B)]^2 + N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2) \cdot [W \cdot 1 \cdot p \cdot (Y \cdot X^2 - o \cdot X \cdot n + Y \cdot n^2) + V \cdot m \cdot (X^2 \cdot Y \cdot p - Y \cdot Z \cdot n^2 - X^2 \cdot Y \cdot Z + Y \cdot n^2 \cdot p + X^2 \cdot o \cdot p - X \cdot n \cdot o \cdot p)]}{Y^2 \cdot (X^2 + n^2)^2 \cdot (Z^2 + p^2) \cdot (V \cdot m + W \cdot 1)^2 + 2 \cdot Y \cdot X \cdot o \cdot p^2 \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot 1) \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot 1 \cdot n) + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot 1 \cdot n)^2} = 0$$



$N_1 = 2.42854$
 $N_2 = 1.30499$
 $N_3 = 1.09663$
 $N_4 = 0.48406$
 $N_5 = 0.80392$
 $R = 0.14432$

Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := 1.30499$ $N_3 := 1.09663$ $N_4 := .48406$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .80392$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BH := BN_3 - HN_3$$

$$BJ := \frac{N_3 \cdot BH}{BN_3} \quad GJ := \frac{BJ}{N_4} \quad BM := \frac{N_5}{AB - GJ}$$

$$AM := \sqrt{AB^2 + BM^2} \quad FM := \frac{BM \cdot (BM + AD)}{AM}$$

$$AF := AM - FM \quad EF := \frac{BM \cdot AF}{AM} \quad AE := \frac{AF}{AM}$$

$$R := \frac{EF}{AB - AE} \quad R = 0.144317$$

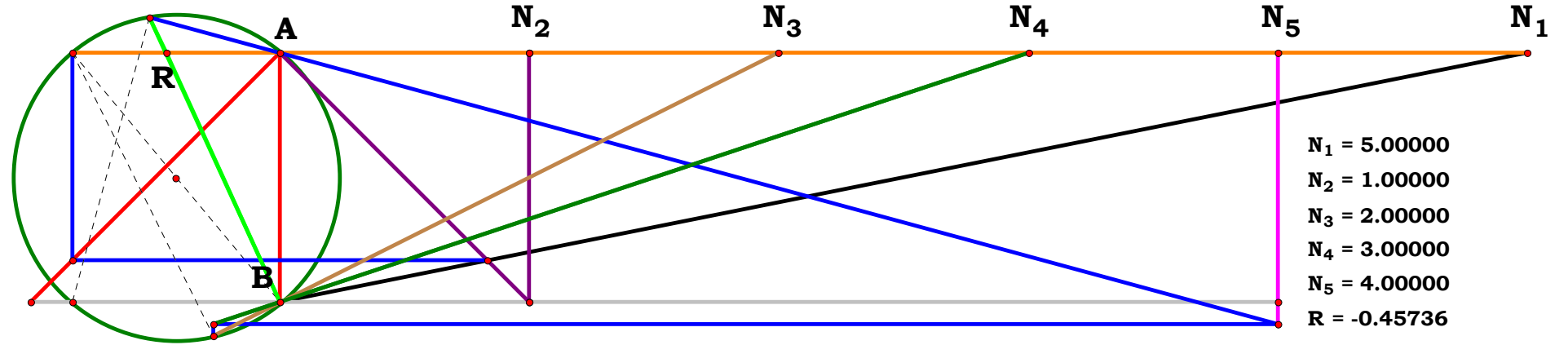
Definitions.

$$R - \frac{(N_1 + N_2) \cdot [N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2 - N_1 \cdot N_5) + N_3 \cdot (N_1 \cdot N_3 - N_2 - N_1)]}{N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot (N_1 + N_1 \cdot N_5 + N_2 \cdot N_5) + N_1 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2 - N_1)} = 0$$

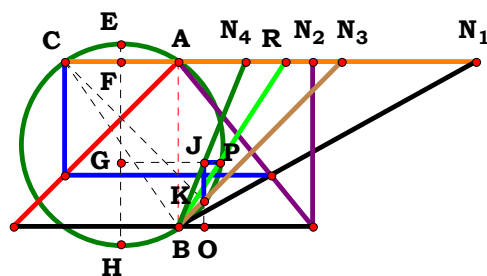
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A + B) \cdot [E \cdot [(C^2 + N_u^2) \cdot (A + B) - D \cdot [C \cdot (A + B) - B \cdot N_u]] - (B \cdot C^2 \cdot N_u + B \cdot N_u^3)]}{E \cdot B \cdot [(C^2 + N_u^2) \cdot (A + B) - D \cdot [C \cdot (A + B) - B \cdot N_u]] + N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2} = 0 \quad N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{(V \cdot m + W \cdot l) \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot m \cdot p - V \cdot Z \cdot m + W \cdot l \cdot p) + X \cdot o \cdot p \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)]}{Y \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) \cdot (V \cdot Z \cdot m + W \cdot Z \cdot l + V \cdot m \cdot p) + V \cdot X \cdot m \cdot o \cdot p \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)} = 0$$



$$\frac{((N_1 + N_2) \cdot (N_4 \cdot (N_3^2 + 1) \cdot ((N_1 + N_2) - N_1 \cdot N_5) + N_3 \cdot ((N_1 \cdot N_3) - (N_1 + N_2))))}{(N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot (N_1 + N_1 \cdot N_5 + N_2 \cdot N_5) + (N_1 \cdot N_3) \cdot ((N_1 \cdot N_3) - (N_1 + N_2)))} - R = 0.00000$$

Unit. AB := 1 Given. $N_1 := 1.79896$ $N_2 := .81101$ $N_3 := .99009$ $N_4 := .40657$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := \mathbf{20} \quad \mathbf{X} := \mathbf{19} \quad \mathbf{Y} := \mathbf{18} \quad \mathbf{Z} := \mathbf{17} \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

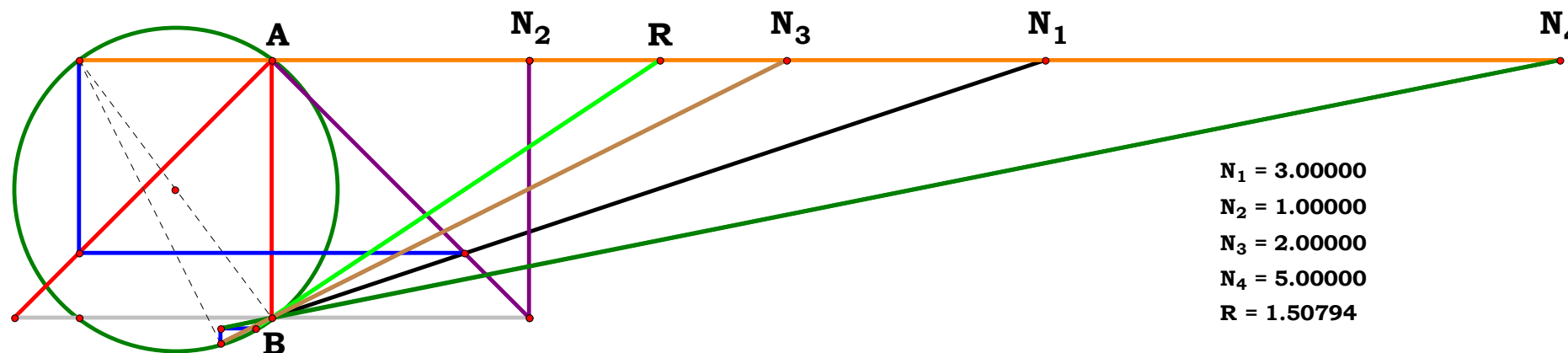
Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2}$$

$$\mathbf{KN}_3 := \frac{\mathbf{N}_3 \cdot (\mathbf{N}_3 + \mathbf{AC})}{\mathbf{BN}_3} \quad \mathbf{BK} := \mathbf{BN}_3 - \mathbf{KN}_3$$

$$\mathbf{BO} := \frac{\mathbf{N}_3 \cdot \mathbf{BK}}{\mathbf{BN}_3} \quad \mathbf{JO} := \frac{\mathbf{BO}}{\mathbf{N}_4} \quad \mathbf{GP} := \mathbf{JO} + \mathbf{EF}$$

$$\mathbf{EG} := \mathbf{EH} - \mathbf{GP} \quad \mathbf{GP} := \sqrt{\mathbf{EG} \cdot \mathbf{GP}} \quad \mathbf{R} := \frac{\mathbf{GP} - \frac{\mathbf{AC}}{2}}{\mathbf{JO}}$$



N₁ = 3.00000
N₂ = 1.00000
N₃ = 2.00000
N₄ = 5.00000
R = 1.50794

R = 0.647038

$$\frac{(N_1 \cdot N_4) \cdot (N_3^2 + 1) - \sqrt{((N_1 \cdot N_4) \cdot (N_3^2 + 1))^2 - 4 \cdot N_3 \cdot (N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3) - N_4 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)) \cdot ((N_1 + N_2) - N_1 \cdot N_3)}}{2 \cdot N_3 \cdot (N_1 \cdot N_3 - (N_1 + N_2))} - R = 0.00000$$

Definitions.

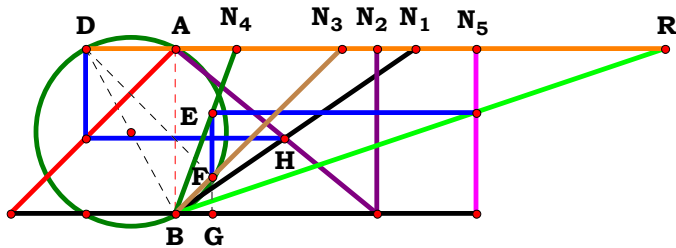
$$R - \frac{\sqrt{N_4^2} \cdot AC \cdot N_4 \cdot (N_3^2 + 1) - N_4 \cdot \sqrt{N_3 \cdot N_4} \cdot [AC \cdot N_3 \cdot (2 \cdot AC \cdot N_4 - 4 \cdot N_3^2 + AC \cdot N_3^2 \cdot N_4 - 4) + 4 \cdot N_3^2 + 4] + 4 \cdot N_3^2 \cdot [AC \cdot N_3 \cdot (2 - AC \cdot N_3) - 1] + AC^2 \cdot N_4^2}{2 \cdot \sqrt{N_4^2} \cdot N_3 \cdot (AC \cdot N_3 - 1)} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_3^2 + 1) - \sqrt{\mathbf{N}_1^2 \cdot \mathbf{N}_4^2 \cdot (\mathbf{N}_3^2 + 1)^2 - 4 \cdot \mathbf{N}_3 \cdot [\mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3) - \mathbf{N}_4 \cdot (\mathbf{N}_1 + \mathbf{N}_2) \cdot (\mathbf{N}_3^2 + 1)]} \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3)}{2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 \cdot \mathbf{N}_3 - \mathbf{N}_2 - \mathbf{N}_1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\sqrt{4 \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]] + \mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{2 \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot (\mathbf{Y}^2 + \mathbf{o}^2) - \sqrt{\mathbf{W}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{n}^2 \cdot (\mathbf{Y}^2 + \mathbf{o}^2)^2 - 4 \cdot \mathbf{Y}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})^2 + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) \cdot (\mathbf{Y}^2 + \mathbf{o}^2) \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})}}{2 \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} - \mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})} = 0$$



N₁ = 1.45027
 N₂ = 1.21782
 N₃ = 1.00946
 N₄ = 0.36783
 N₅ = 1.82093
 R = 2.96844

Unit. AB := 1 Given. N₁ := 1.45027 N₂ := 1.21782 N₃ := 1.00946 N₄ := .36783

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ N₅ := 1.82093

V := 17 W := 20 X := 19 Y := 18 Z := 17 1 := $\frac{V}{N_1}$ m := $\frac{W}{N_2}$ n := $\frac{X}{N_3}$ o := $\frac{Y}{N_4}$ p := $\frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{BG}{N_4} \quad R := \frac{N_5}{EG}$$

$$R = 2.968434$$

Definitions.

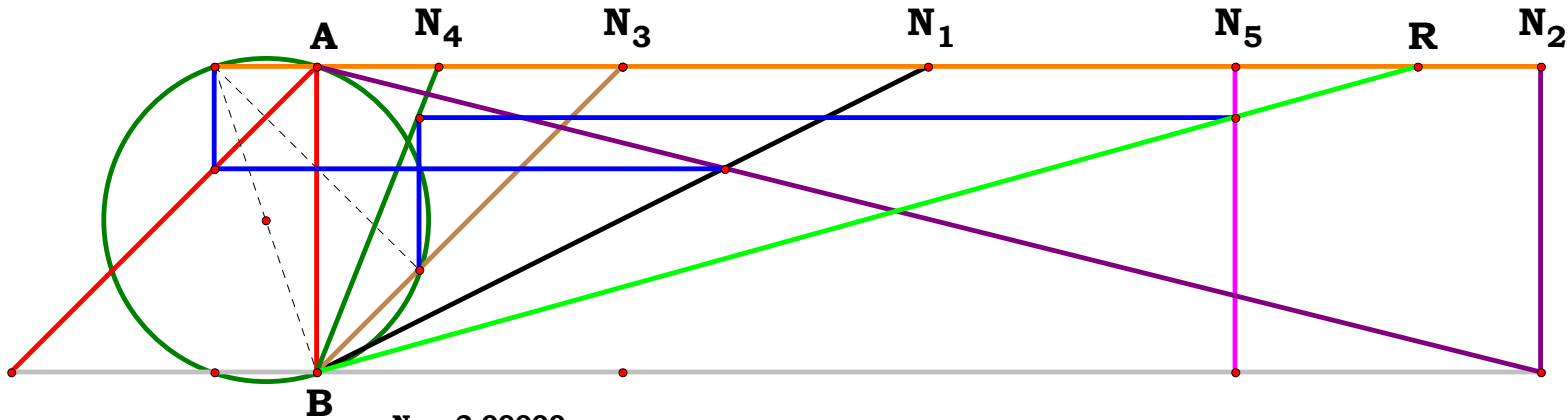
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

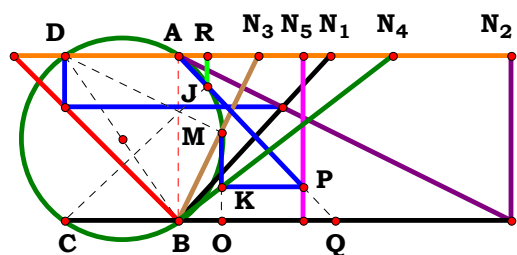
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2)}{o \cdot p \cdot (V \cdot X \cdot m \cdot n - V \cdot X^2 \cdot m + W \cdot X \cdot 1 \cdot n)} = 0$$



N₁ = 2.00000
 N₂ = 4.00000
 N₃ = 1.00000
 N₄ = 0.40000
 N₅ = 3.00000
 R = 3.60000

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3)} \cdot R = 0.00000$$



$N_1 = 0.91756$
 $N_2 = 2.01205$
 $N_3 = 0.48642$
 $N_4 = 1.29767$
 $N_5 = 0.75549$
 $R = 0.17469$

Unit. $AB := 1$ Given. $N_1 := .91756$ $N_2 := 2.01206$ $N_3 := .48642$ $N_4 := 1.29767$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .75549$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

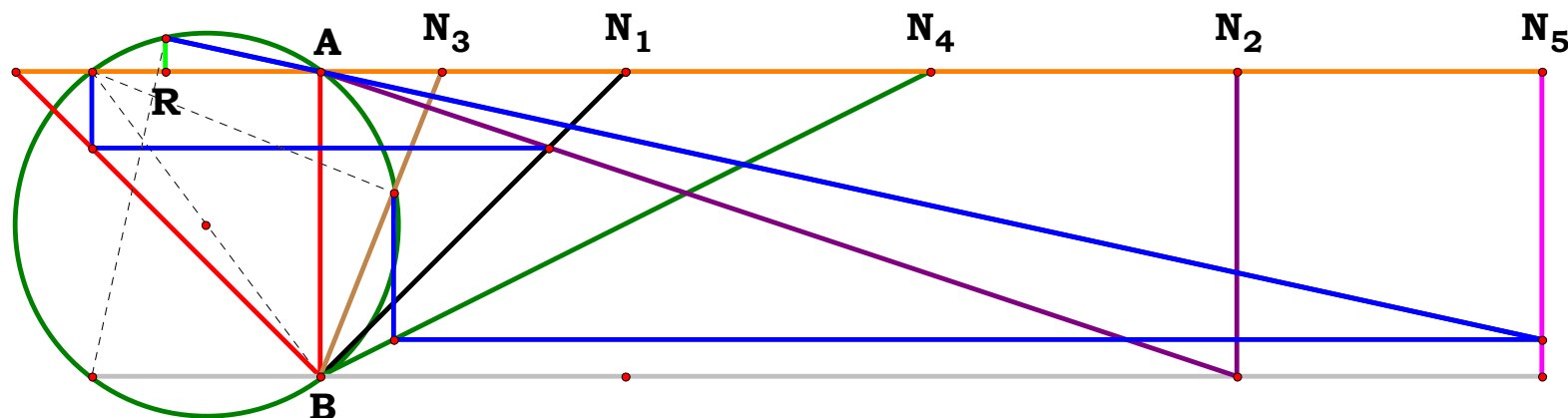
Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BM := BN_3 - MN_3 \quad BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4}$$

$$BQ := \frac{N_5}{AB - KO} \quad AQ := \sqrt{AB^2 + BQ^2} \quad JQ := \frac{BQ \cdot (BQ + AD)}{AQ}$$

$$AJ := AQ - JQ \quad R := \frac{BQ \cdot AJ}{AQ} \quad R = 0.174688$$



$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 0.40000$
 $N_4 = 2.00000$
 $N_5 = 4.00000$
 $R = -0.50573$

$$\frac{(N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)) \cdot ((N_3^2 \cdot ((N_2 + N_1 \cdot N_4 + N_2 \cdot N_4) - N_2 \cdot N_4 \cdot N_5) - N_3 \cdot (N_1 + N_2)) + N_4 \cdot ((N_1 + N_2) - N_2 \cdot N_5))}{(((N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2))^2 \cdot (N_5^2 + 1)) - (2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot ((N_1 + N_2) - (N_2 \cdot N_3)))) + (N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3)))^2} \cdot R = 0.00000$$

Definitions.

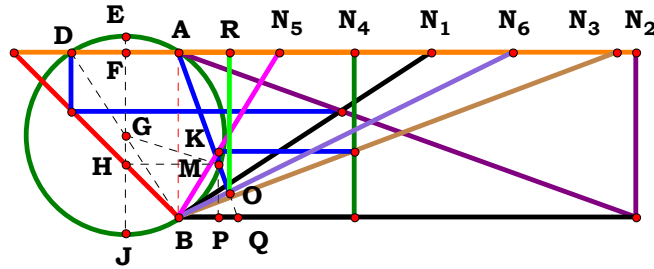
$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot [N_3^2 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4 - N_2 \cdot N_4 \cdot N_5) - N_3 \cdot (N_1 + N_2) + N_4 \cdot (N_1 + N_2 - N_2 \cdot N_5)]}{N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_5^2 + 1) \cdot (N_1 + N_2)^2 - 2 \cdot N_4 \cdot N_3 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot (N_1 + N_2 - N_2 \cdot N_3) + N_3^2 \cdot (N_1 + N_2 - N_2 \cdot N_3)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot [C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot [C^2 - N_u \cdot (E - N_u)] + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B)]}{E^2 \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]^2 + N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2) \cdot [V \cdot m \cdot p \cdot (Y \cdot X^2 - o \cdot X \cdot n + Y \cdot n^2) - W \cdot 1 \cdot (X^2 \cdot Y \cdot Z + Y \cdot Z \cdot n^2 - X^2 \cdot Y \cdot p - Y \cdot n^2 \cdot p - X^2 \cdot o \cdot p + X \cdot n \cdot o \cdot p)]}{Y^2 \cdot (X^2 + n^2)^2 \cdot (Z^2 + p^2) \cdot (V \cdot m + W \cdot 1)^2 + -2 \cdot Y \cdot X \cdot o \cdot p^2 \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot 1) \cdot (V \cdot m \cdot n - W \cdot X \cdot 1 + W \cdot 1 \cdot n) + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot m \cdot n - W \cdot X \cdot 1 + W \cdot 1 \cdot n)^2} = 0$$



$N_1 = 1.52776$
 $N_2 = 2.76754$
 $N_3 = 2.65604$
 $N_4 = 1.06521$
 $N_5 = 0.61020$
 $N_6 = 2.02433$
 $R = 0.30553$

Unit. $AB := 1$ Given. $N_1 := 1.52776$ $N_2 := 2.76754$ $N_3 := 2.65604$
 $N_4 := 1.06521$ $N_5 := .61020$ $N_6 := 2.02433$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

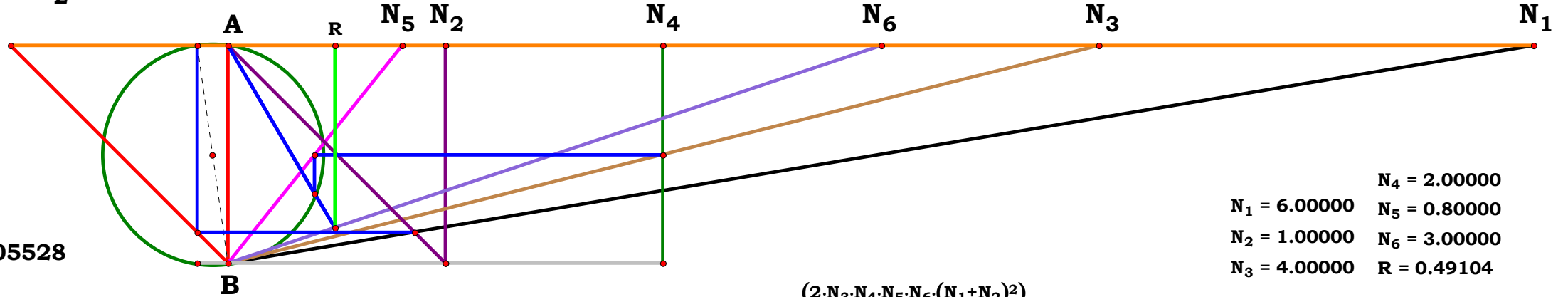
Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AD^2} \quad AF := \frac{AD}{2}$$

$$BP := N_5 \cdot \frac{N_4}{N_3} \quad HM := AF + BP$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - HM^2} \quad FH := \frac{AB}{2} + GH$$

$$BQ := \frac{HM - AF}{FH} \quad R := \frac{BQ \cdot N_6}{BQ + N_6} \quad R = 0.305528$$



$N_1 = 6.00000$ $N_2 = 1.00000$ $N_3 = 4.00000$
 $N_4 = 2.00000$ $N_5 = 0.80000$ $N_6 = 3.00000$
 $R = 0.49104$

Definitions.

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \sqrt{N_3^2}}{\sqrt{N_3^2 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) + N_3 \cdot N_6 \cdot \sqrt{N_3^2 - 4 \cdot AD \cdot N_3 \cdot N_4 \cdot N_5 - 4 \cdot N_4^2 \cdot N_5^2}}} = 0$$

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2)}}{N_3 \cdot N_6 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2) - 4 \cdot N_4 \cdot N_5 \cdot [N_2 \cdot N_3 + N_4 \cdot N_5 \cdot (N_1 + N_2)]} + \sqrt{N_3^2 \cdot (N_1 + N_2) \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5)}} = 0$$

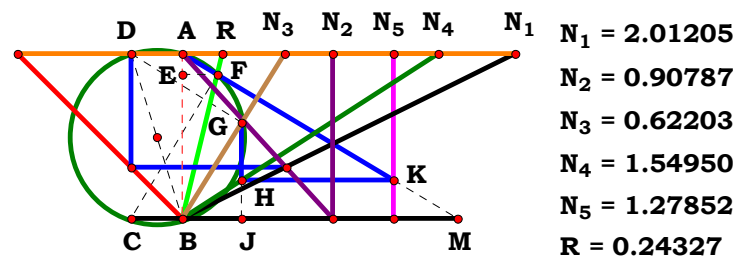
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B)}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X \cdot Y \cdot Z \cdot \sqrt{U \cdot l + V \cdot k \cdot m}}{Z \cdot \sqrt{U \cdot W^2 \cdot l \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2 \cdot (U \cdot l + V \cdot k) + V \cdot W \cdot k \cdot n \cdot o \cdot (W \cdot n \cdot o - 4 \cdot X \cdot Y \cdot m) + \sqrt{U \cdot l + V \cdot k} \cdot (W \cdot Z \cdot n \cdot o + 2 \cdot X \cdot Y \cdot m \cdot p)}} = 0$$

$$\frac{(2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot N_6 \cdot (N_1 + N_2)^2)}{N_6 \cdot \sqrt{(N_3^2 \cdot (N_1 + N_2)^3) \cdot (N_3^2 \cdot (N_1 + N_2) - 4 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_4 \cdot N_5 \cdot (N_1 + N_2))) + (N_3 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) \cdot (N_1 + N_2)^2)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.01205$ $N_2 := .90787$ $N_3 := .62203$

$N_4 := 1.54950$ $N_5 := 1.27852$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

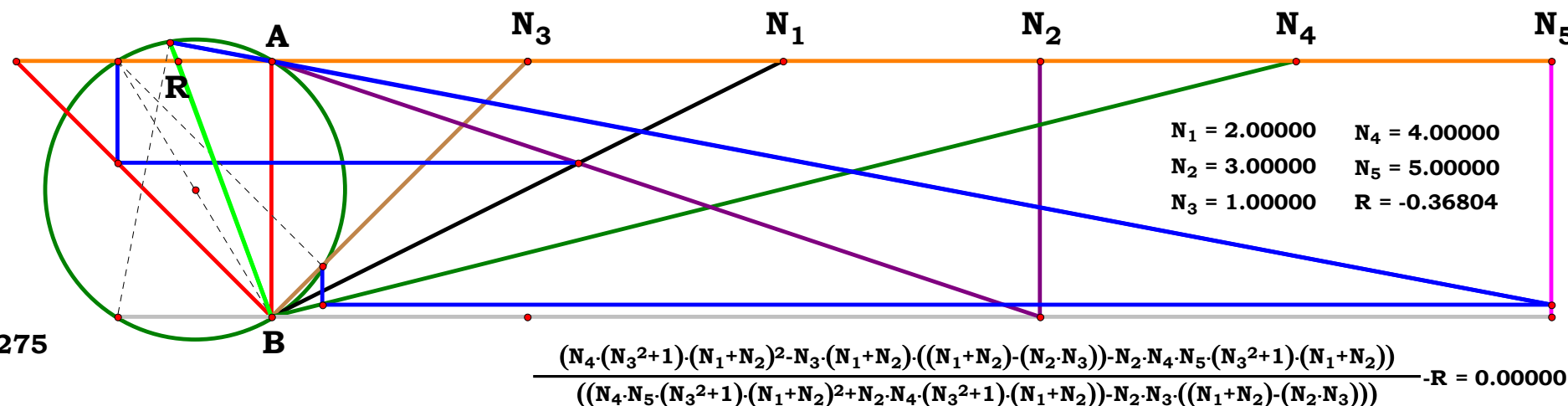
$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad GJ := \frac{BJ}{N_4}$$

$$BM := \frac{N_5}{AB - GJ} \quad AM := \sqrt{AB^2 + BM^2}$$

$$FM := \frac{BM \cdot (BM + AD)}{AM} \quad AF := AM - FM$$

$$EF := \frac{BM \cdot AF}{AM} \quad AE := \frac{AF}{AM} \quad R := \frac{EF}{AB - AE} \quad R = 0.243275$$



Definitions.

$$R - \frac{N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)^2 - N_3 \cdot (N_1 + N_2) \cdot (N_1 + N_2 - N_2 \cdot N_3) - N_5 \cdot N_2 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)}{N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) + N_4 \cdot N_2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) - N_2 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

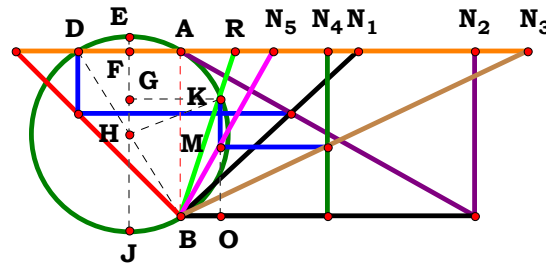
$$R - \frac{(A + B) \cdot \left[E \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u \right] - \left[A \cdot N_u \cdot (C^2 + N_u^2) \right] \right]}{E \cdot A \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u \right] + N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{(V \cdot m + W \cdot l) \cdot \left[Y \cdot (X^2 + n^2) \cdot (V \cdot m \cdot p - W \cdot Z \cdot l + W \cdot l \cdot p) + X \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot m \cdot n - W \cdot l \cdot n) \right]}{Y \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) \cdot (V \cdot Z \cdot m + W \cdot Z \cdot l + W \cdot l \cdot p) + W \cdot X \cdot l \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot m \cdot n - W \cdot l \cdot n)} = 0$$



4RST4AB4R3



$N_1 = 1.07253$
 $N_2 = 1.77959$
 $N_3 = 2.10395$
 $N_4 = 0.89086$
 $N_5 = 0.56178$
 $R = 0.33403$

Unit. $AB := 1$ Given. $N_1 := 1.07253$ $N_2 := 1.77959$ $N_3 := 2.10395$ $N_4 := .89086$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .56178$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

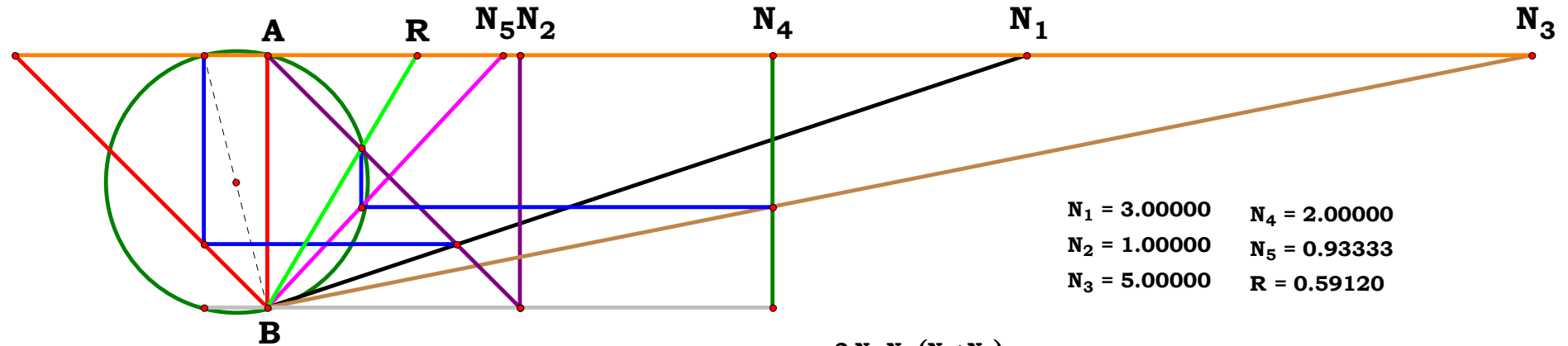
Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$GK := \frac{AD}{2} + BO \quad EJ := \sqrt{AB^2 + AD^2}$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - GK^2} \quad EF := \frac{EJ - AB}{2}$$

$$KO := \frac{EJ}{2} + GH - EF \quad R := \frac{BO}{KO} \quad R = 0.334028$$



$N_1 = 3.00000$ $N_4 = 2.00000$
 $N_2 = 1.00000$ $N_5 = 0.93333$
 $N_3 = 5.00000$ $R = 0.59120$

Definitions.

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2)^2}}{N_3 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2)^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot [N_2 \cdot N_3 + N_4 \cdot N_5 \cdot (N_1 + N_2)]} + N_3 \cdot \sqrt{N_3^2 \cdot (N_1 + N_2)^2}} = 0$$

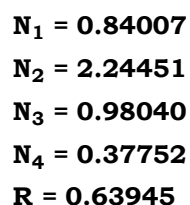
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]] \cdot (A + B) + D \cdot E \cdot (A + B)}} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot n}{\sqrt{[(V \cdot m + W \cdot l) \cdot [X \cdot o \cdot p \cdot (V \cdot X \cdot m \cdot o \cdot p - 4 \cdot W \cdot Y \cdot Z \cdot l \cdot n + W \cdot X \cdot l \cdot o \cdot p) - 4 \cdot Y^2 \cdot Z^2 \cdot n^2 \cdot (V \cdot m + W \cdot l)]] + X \cdot o \cdot p \cdot (V \cdot m + W \cdot l)}} = 0$$

$$\frac{2 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_3 \cdot (N_1 + N_2) + \sqrt{(N_3 \cdot (N_1 + N_2))^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_4 \cdot N_5 \cdot (N_1 + N_2)) \cdot (N_1 + N_2)}} - R = 0.00000$$


$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

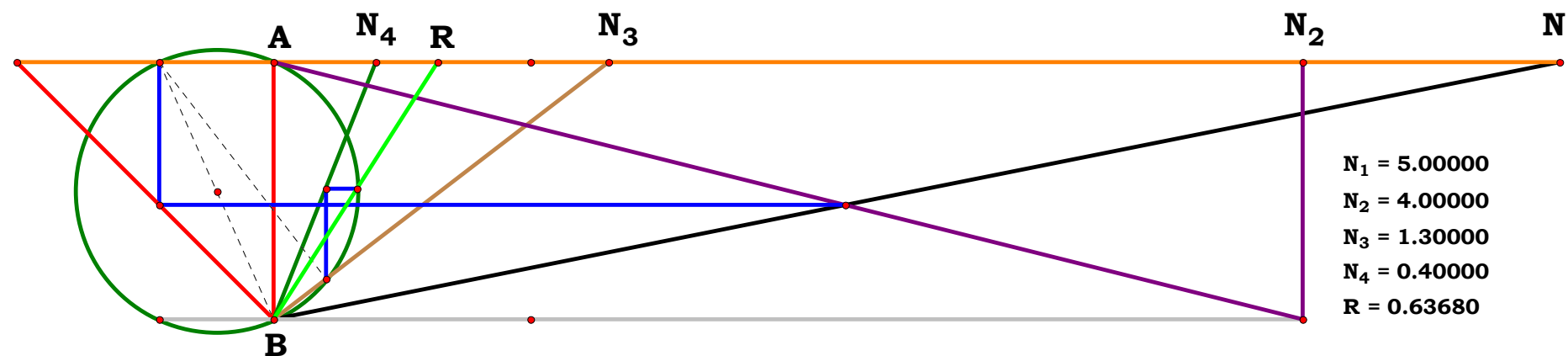
$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2} \quad \mathbf{ON}_3 := \frac{\mathbf{N}_3 \cdot (\mathbf{N}_3 + \mathbf{AC})}{\mathbf{BN}_3}$$

$$\mathbf{BO} := \mathbf{BN}_3 - \mathbf{ON}_3 \quad \mathbf{BP} := \frac{\mathbf{N}_3 \cdot \mathbf{BO}}{\mathbf{BN}_3} \quad \mathbf{KP} := \frac{\mathbf{BP}}{\mathbf{N}_4}$$

$$\mathbf{GH} := \mathbf{KP} + \mathbf{EF} \quad \mathbf{EG} := \mathbf{EH} - \mathbf{GH}$$

$$\mathbf{GP} := \sqrt{\mathbf{EG} \cdot \mathbf{GH}} \quad \mathbf{R} := \frac{\mathbf{GP} - \frac{\mathbf{AC}}{2}}{\mathbf{KP}} \quad \mathbf{R} = 0.63945$$



N₁ = 5.00000
N₂ = 4.00000
N₃ = 1.30000
N₄ = 0.40000
R = 0.63680

$$\frac{(N_1+N_2) \cdot (\sqrt{((N_2 \cdot N_4) \cdot (N_3^2+1))^2 + 4 \cdot N_3 \cdot ((N_1+N_2) \cdot (N_2 \cdot N_3)) \cdot (N_4 \cdot (N_3^2+1) \cdot (N_1+N_2) - N_3 \cdot ((N_1+N_2) \cdot (N_2 \cdot N_3)))}) - (N_2 \cdot N_4) - N_2 \cdot N_3^2 \cdot N_4}{2 \cdot N_3 \cdot (N_1+N_2) \cdot ((N_1+N_2) \cdot (N_2 \cdot N_3))} - R = 0.00000$$

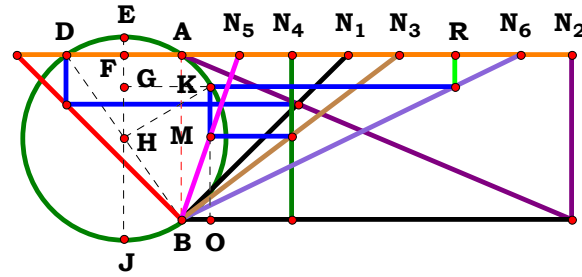
$$R - \frac{\sqrt{N_4^2} \cdot AC \cdot N_4 \cdot (N_3^2 + 1) - N_4 \cdot \sqrt{N_3 \cdot N_4} \cdot [AC \cdot N_3 \cdot (2 \cdot AC \cdot N_4 - 4 \cdot N_3^2 + AC \cdot N_3^2 \cdot N_4 - 4) + 4 \cdot N_3^2 + 4] + 4 \cdot N_3^2 \cdot [AC \cdot N_3 \cdot (2 - AC \cdot N_3) - 1] + AC^2 \cdot N_4^2}{2 \cdot \sqrt{N_4^2} \cdot N_3 \cdot (AC \cdot N_3 - 1)} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2^2 \cdot \mathbf{N}_4^2 \cdot (\mathbf{N}_3^2 + 1)^2 - 4 \cdot \mathbf{N}_3^2 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3)^2 + 4 \cdot \mathbf{N}_3 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_1 + \mathbf{N}_2) \cdot (\mathbf{N}_3^2 + 1) \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3) - \mathbf{N}_2 \cdot \mathbf{N}_4 \cdot (\mathbf{N}_3^2 + 1)}}{2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2 + 4 \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_u] \cdot [(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^2 - \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C} + (\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_u^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_u]} - \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{2 \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_u)} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Z}^2 \cdot \mathbf{X}^2 \cdot \mathbf{m}^2 \cdot (\mathbf{Y}^2 + \mathbf{o}^2)^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{Y}^2 + \mathbf{o}^2) \cdot (\mathbf{W} \cdot \mathbf{n} + \mathbf{X} \cdot \mathbf{m}) \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o}) - 4 \cdot \mathbf{Y}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})^2 - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot (\mathbf{Y}^2 + \mathbf{o}^2)}}{2 \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{n} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})} = 0$$



$$\begin{aligned} N_1 &:= 1.00473 & N_5 &:= 0.34869 \\ N_2 &:= 2.36074 & N_6 &:= 2.05339 \\ N_3 &:= 1.31704 & R &:= 1.65618 \\ N_4 &:= 0.67045 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 1.00473 & N_2 &:= 2.36074 & N_3 &:= 1.31704 \\ & & N_4 &:= .67045 & N_5 &:= .34869 & N_6 &:= 2.05339 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & C &:= \frac{N_u}{N_3} & D &:= \frac{N_u}{N_4} & E &:= \frac{N_u}{N_5} & F &:= \frac{N_u}{N_6} \end{aligned}$$

Descriptions.

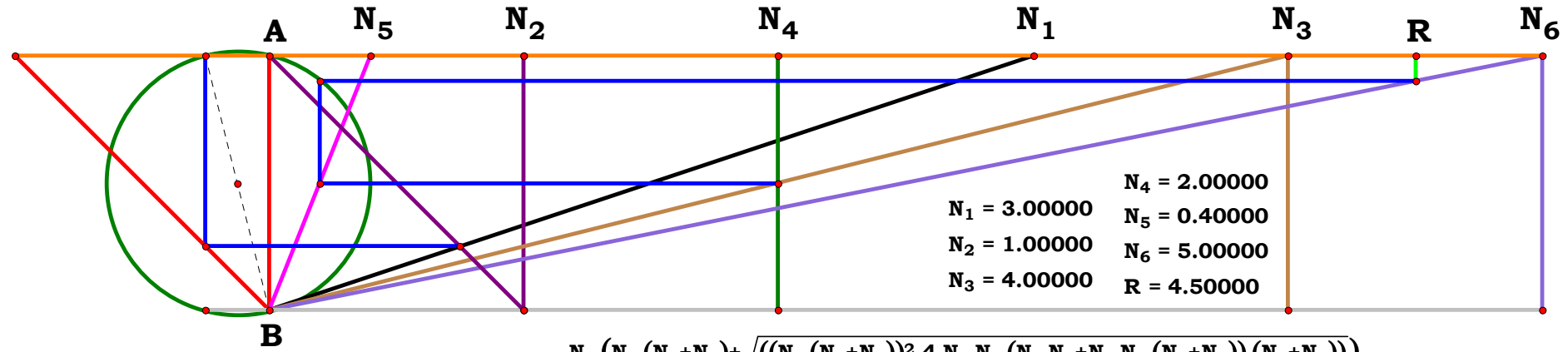
$$AD := \frac{N_2}{N_1 + N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$FK := BO + \frac{AD}{2} \quad EJ := \sqrt{AD^2 + AB^2} \quad HK := \frac{EJ}{2}$$

$$FH := \sqrt{HK^2 - FK^2} \quad EF := \frac{EJ - AB}{2}$$

$$KO := HK + FH - EF \quad R := N_6 \cdot KO \quad R = 1.656189$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



$$\begin{aligned} N_1 &:= 3.00000 & N_4 &:= 2.00000 \\ N_2 &:= 1.00000 & N_5 &:= 0.40000 \\ N_3 &:= 4.00000 & N_6 &:= 5.00000 \\ R &:= 4.50000 \end{aligned}$$

Definitions.

$$R - \frac{N_6 \cdot \left[\sqrt{N_3^2 \cdot (N_1 + N_2)^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_2 \cdot N_3 + N_1 \cdot N_4 \cdot N_5 + N_2 \cdot N_4 \cdot N_5)} + N_3 \cdot (N_1 + N_2) \right]}{2 \cdot N_3 \cdot (N_1 + N_2)} = 0$$

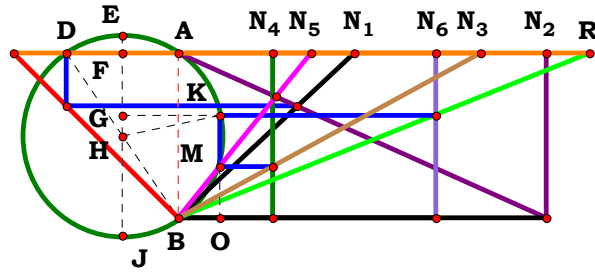
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]}{2 \cdot F \cdot (A + B) \cdot D \cdot E} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{(U \cdot l + V \cdot k) \cdot [W^2 \cdot n^2 \cdot o^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot X \cdot Y \cdot m \cdot (U \cdot X \cdot Y \cdot l \cdot m + V \cdot X \cdot Y \cdot k \cdot m + V \cdot W \cdot k \cdot n \cdot o)]} + W \cdot n \cdot o \cdot (U \cdot l + V \cdot k) \right]}{2 \cdot W \cdot p \cdot (U \cdot l + V \cdot k) \cdot n \cdot o} = 0$$

$$\frac{N_6 \cdot (N_3 \cdot (N_1 + N_2) + \sqrt{((N_3 \cdot (N_1 + N_2))^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 + N_4 \cdot N_5 \cdot (N_1 + N_2))) \cdot (N_1 + N_2)})}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$



$N_1 = 1.06284$
 $N_2 = 2.22514$
 $N_3 = 1.83038$
 $N_4 = 0.57360$
 $N_5 = 0.80392$
 $N_6 = 1.55941$
 $R = 2.48850$

Unit. $AB := 1$ Given. $N_1 := 1.06284$ $N_2 := 2.22514$ $N_3 := 1.83038$
 $N_4 := .57360$ $N_5 := .80392$ $N_6 := 1.55941$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

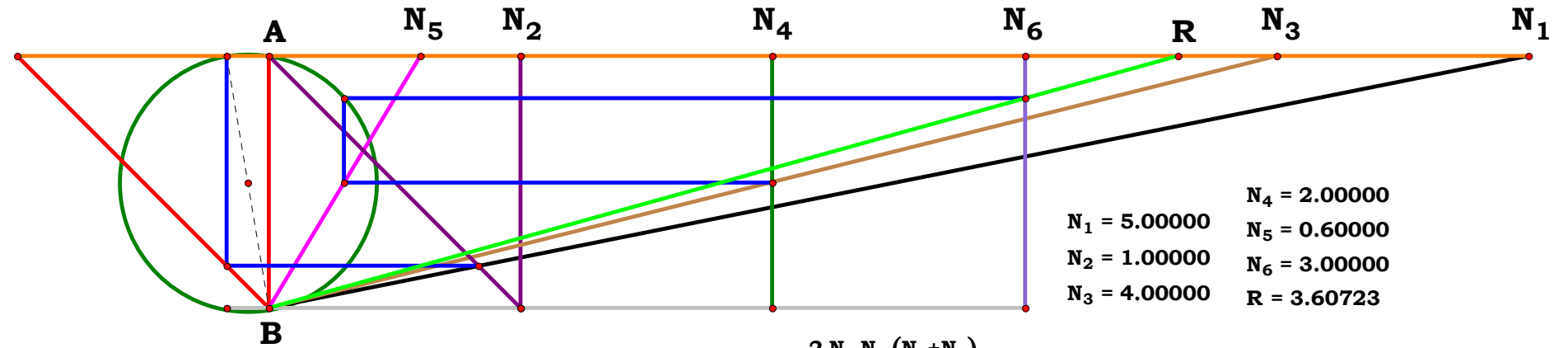
$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

$$AD := \frac{N_2}{N_1 + N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$EJ := \sqrt{AD^2 + AB^2} \quad EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2}$$

$$GK := \frac{AD}{2} + BO \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := HK + GH - EF \quad R := \frac{N_6}{KO} \quad R = 2.488535$$



$N_1 = 5.00000$ $N_4 = 2.00000$
 $N_2 = 1.00000$ $N_5 = 0.60000$
 $N_3 = 4.00000$ $N_6 = 3.00000$
 $R = 3.60723$

$$\frac{2 \cdot N_3 \cdot N_6 \cdot (N_1 + N_2)}{N_3 \cdot (N_1 + N_2) + \sqrt{(N_1 + N_2)^2 \cdot (N_3^2 - 4 \cdot N_4^2 \cdot N_5^2) - 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)}} - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_3 \cdot N_6 \cdot (N_1 + N_2)}{\sqrt{(N_1 + N_2)^2 \cdot (N_3^2 - 4 \cdot N_4^2 \cdot N_5^2) - 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) + N_3 \cdot (N_1 + N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot (A + B) \cdot D \cdot E}{F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot W \cdot Z \cdot (U \cdot l + V \cdot k) \cdot n \cdot o}{p \cdot \left[\sqrt{(U \cdot l + V \cdot k) \cdot [W^2 \cdot n^2 \cdot o^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot X \cdot Y \cdot m \cdot [U \cdot X \cdot Y \cdot l \cdot m + V \cdot k \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)]]} + W \cdot n \cdot o \cdot (U \cdot l + V \cdot k) \right]} = 0$$



4RST4AB4R7

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{BG}{N_4} \quad R := \frac{N_5}{EG} \quad R = 1.555245$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

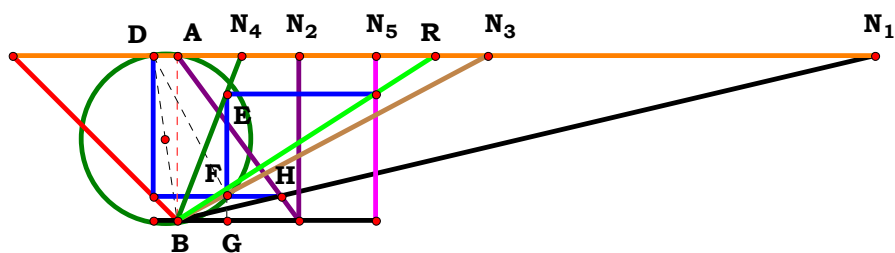
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]} = 0$$

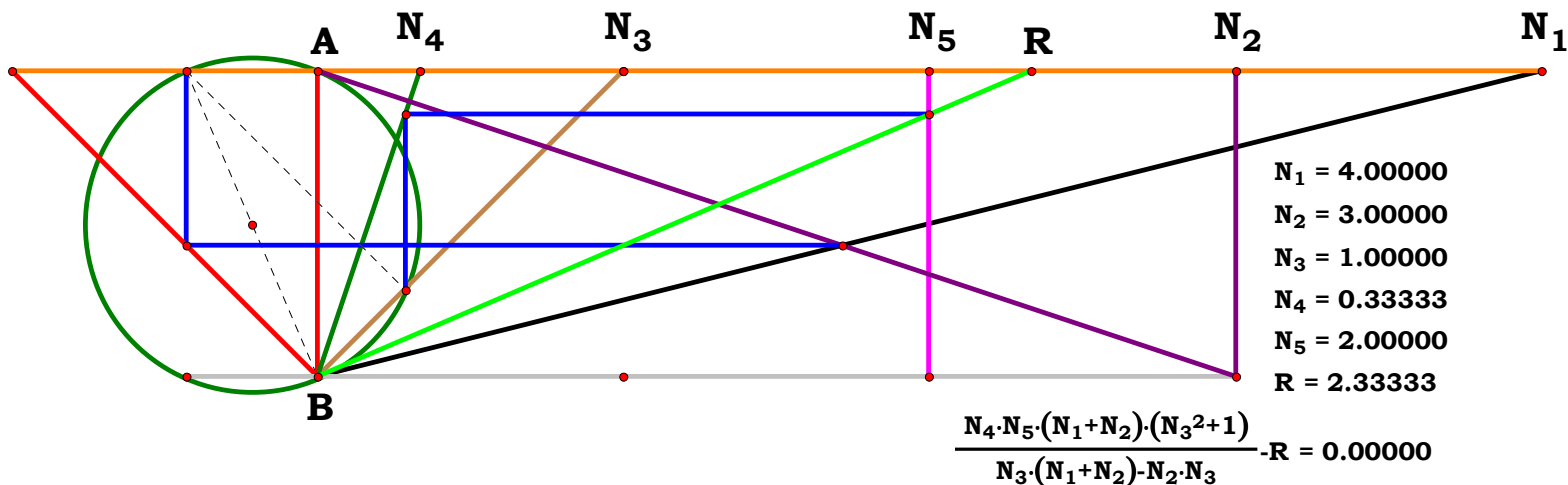
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2)}{o \cdot p \cdot (V \cdot X \cdot m \cdot n - W \cdot X^2 \cdot 1 + W \cdot X \cdot 1 \cdot n)} = 0$$



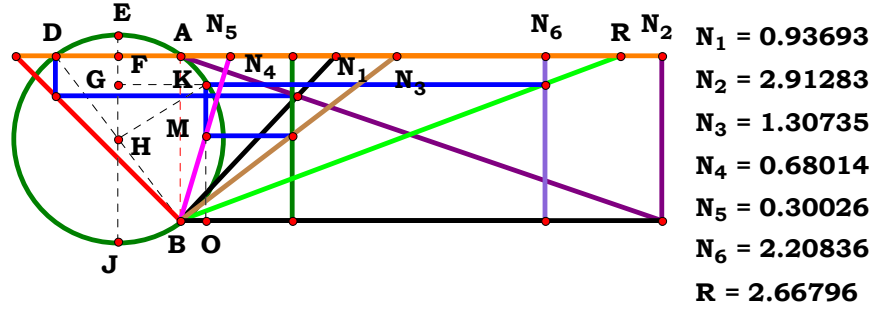
Unit. $AB := 1$ Given. $N_1 := 4.22041$ $N_2 := .73353$ $N_3 := 1.88118$
 $N_4 := .38720$ $N_5 := 1.20104$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$
 $R = 1.55525$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.33333$
 $N_5 = 2.00000$
 $R = 2.33333$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} - R = 0.00000$$



Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AD^2 + AB^2} \quad EF := \frac{EJ - AB}{2}$$

$$MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO \quad GK := BO + \frac{AD}{2}$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := HK + GH - EF \quad R := \frac{N_6}{KO}$$

$$R = 2.667968$$

Definitions.

$$R - \frac{2 \cdot N_3 \cdot N_6 \cdot (N_1 + N_2)}{\sqrt{(N_1 + N_2)^2 \cdot (N_3^2 - 4 \cdot N_4^2 \cdot N_5^2) - 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) + N_3 \cdot (N_1 + N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot (A + B) \cdot D \cdot E}{F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

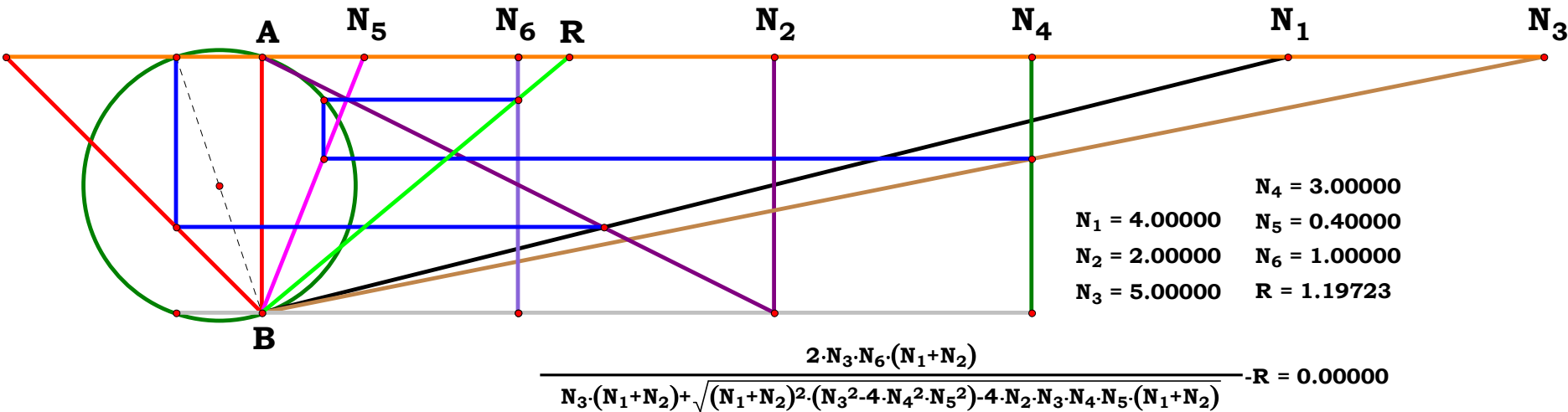
$$R - \frac{2 \cdot W \cdot Z \cdot (U \cdot l + V \cdot k) \cdot n \cdot o}{p \cdot \left[\sqrt{(U \cdot l + V \cdot k) \cdot [W^2 \cdot n^2 \cdot o^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot X \cdot Y \cdot m \cdot [U \cdot X \cdot Y \cdot l \cdot m + V \cdot k \cdot (X \cdot Y \cdot m + W \cdot n \cdot o)]]} + W \cdot n \cdot o \cdot (U \cdot l + V \cdot k) \right]} = 0$$

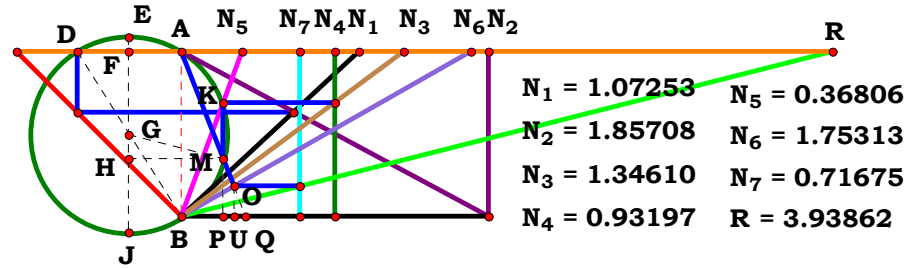
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .93693 \quad N_2 := 2.91283 \quad N_3 := 1.30735 \\ N_4 := .68014 \quad N_5 := .30026 \quad N_6 := 2.20836$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$





Unit. $AB := 1$ Given. $N_1 := 1.07253$ $N_2 := 1.85708$ $N_3 := 1.34610$ $N_4 := .93197$
 $N_5 := .36806$ $N_6 := 1.75313$ $N_7 := .71675$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$j := \frac{T}{N_1}$ $k := \frac{U}{N_2}$ $l := \frac{V}{N_3}$ $m := \frac{W}{N_4}$ $n := \frac{X}{N_5}$ $o := \frac{Y}{N_6}$ $p := \frac{Z}{N_7}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BP := N_5 \cdot \frac{N_4}{N_3} \quad EJ := \sqrt{AD^2 + AB^2}$$

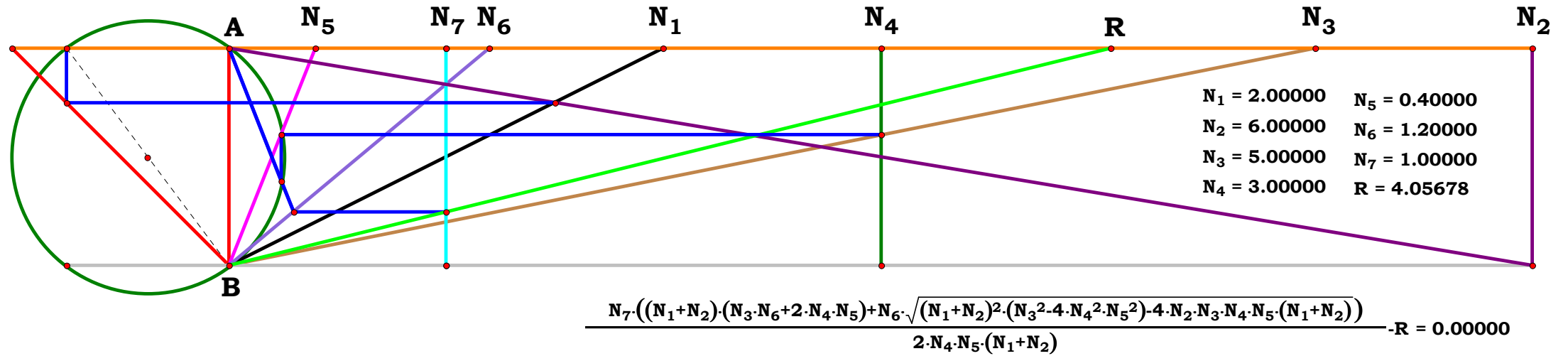
$$EF := \frac{EJ - AB}{2} \quad GM := \frac{EJ}{2}$$

$$HM := \frac{AD}{2} + BP \quad GH := \sqrt{GM^2 - HM^2}$$

$$FH := GM + GH - EF \quad BQ := \frac{BP}{FH}$$

$$BU := \frac{N_6 \cdot BQ}{N_6 + BQ} \quad OU := \frac{BU}{N_6}$$

$$R := \frac{N_7}{OU} \quad R = 3.938664$$



Definitions.

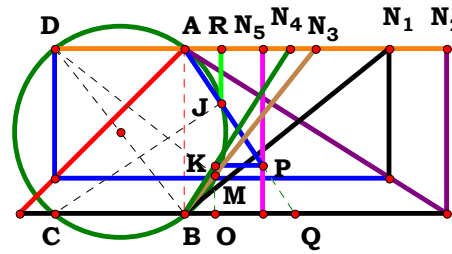
$$R - \frac{N_7 \cdot \left[N_6 \cdot \sqrt{(N_1 + N_2)^2 \cdot (N_3^2 - 4 \cdot N_4^2 \cdot N_5^2) - 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)} + (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) \cdot (N_1 + N_2) \right]}{2 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot [C \cdot N_u \cdot (A + B) + A \cdot D \cdot E]} \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B) \right]}{2 \cdot C \cdot F \cdot G \cdot (A + B)} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{N_u \cdot \left[N_u \cdot \sqrt{[(T \cdot k + U \cdot j) \cdot [V \cdot m \cdot n \cdot (T \cdot V \cdot k \cdot m \cdot n - 4 \cdot U \cdot W \cdot X \cdot j \cdot l + U \cdot V \cdot j \cdot m \cdot n) - 4 \cdot W^2 \cdot X^2 \cdot l^2 \cdot (T \cdot k + U \cdot j)]] + (T \cdot k + U \cdot j) \cdot (2 \cdot F \cdot W \cdot X \cdot l + N_u \cdot V \cdot m \cdot n)} \right]}{2 \cdot F \cdot G \cdot W \cdot X \cdot l \cdot (T \cdot k + U \cdot j)} = 0$$



$N_1 = 1.23719$
 $N_2 = 1.58588$
 $N_3 = 0.79637$
 $N_4 = 0.63903$
 $N_5 = 0.47460$
 $R = 0.22134$

Unit. $AB := 1$ Given. $N_1 := 1.23719$ $N_2 := 1.58588$ $N_3 := .79637$ $N_4 := .63903$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .47460$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BM := BN_3 - MN_3$$

$$BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4} \quad BQ := \frac{N_5}{AB - KO}$$

$$AQ := \sqrt{AB^2 + BQ^2} \quad JQ := \frac{BQ \cdot (BQ + AD)}{AQ}$$

$$AJ := AQ - JQ \quad R := \frac{BQ \cdot AJ}{AQ} \quad R = 0.221344$$

Definitions.

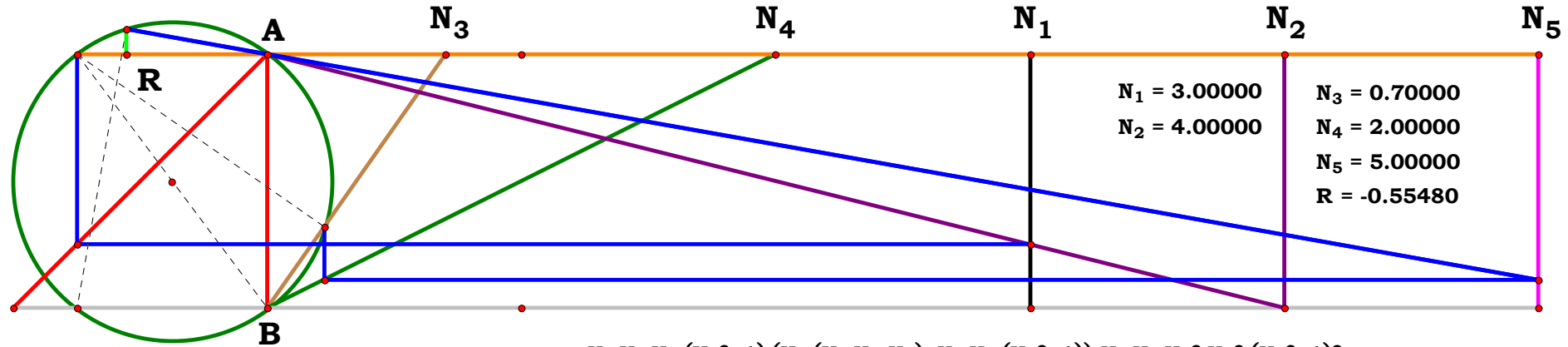
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot [N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1)] - N_1 \cdot N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2}{N_2^2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 + (N_1 \cdot N_3^2 - N_2 \cdot N_3 + N_2 \cdot N_4 + N_2 \cdot N_3^2 \cdot N_4)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

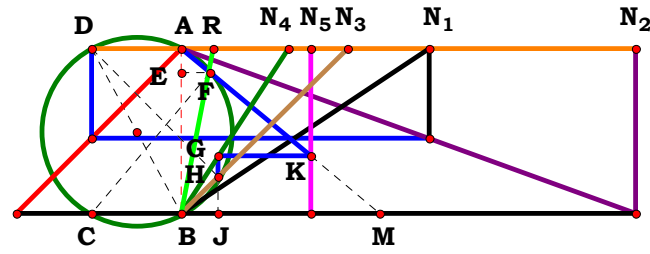
$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot A \cdot [A \cdot C \cdot E \cdot (C - D) - B \cdot N_u \cdot (C^2 + N_u^2) + E \cdot N_u \cdot (B \cdot D + A \cdot N_u)]}{E^2 \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)]^2 + A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2) \cdot [Y \cdot (X^2 + n^2) \cdot (W \cdot l \cdot p - V \cdot Z \cdot m) + X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot l \cdot n)]}{Y^2 \cdot W^2 \cdot l^2 \cdot (X^2 + n^2)^2 \cdot (Z^2 + p^2) + 2 \cdot Y \cdot W \cdot X \cdot l \cdot o \cdot p^2 \cdot (X^2 + n^2) \cdot (V \cdot X \cdot m - W \cdot l \cdot n) + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - W \cdot l \cdot n)^2} = 0$$



$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1)) - N_1 \cdot N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2}{(N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))^2 + ((N_1 \cdot N_3^2 - N_2 \cdot N_3) + N_2 \cdot N_4 + N_2 \cdot N_3^2 \cdot N_4)^2} - R = 0.00000$$



$N_1 = 1.49870$
 $N_2 = 2.74817$
 $N_3 = 1.00946$
 $N_4 = 0.64872$
 $N_5 = 0.78455$
 $R = 0.19783$

Unit. $AB := 1$ Given. $N_1 := 1.49870$ $N_2 := 2.74817$ $N_3 := 1.00946$ $N_4 := .64872$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .78455$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad GJ := \frac{BJ}{N_4}$$

$$BM := \frac{N_5}{AB - GJ} \quad AM := \sqrt{AB^2 + BM^2}$$

$$FM := \frac{BM \cdot (BM + AD)}{AM} \quad AF := AM - FM \quad EF := \frac{BM \cdot AF}{AM}$$

$$AE := \frac{AF}{AM} \quad R := \frac{EF}{AB - AE} \quad R = 0.197829$$

Definitions.

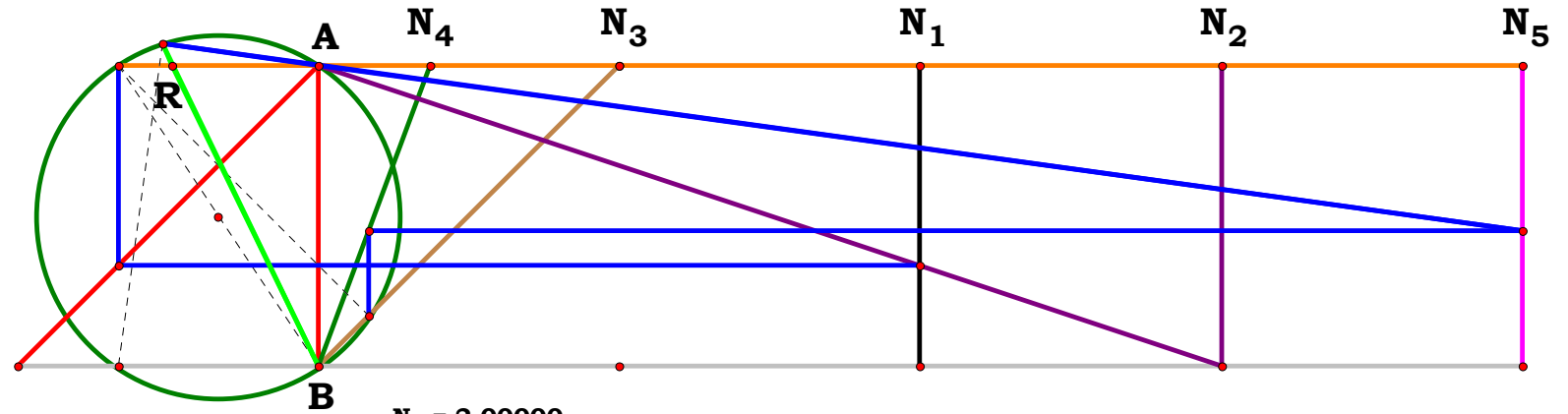
$$R - \frac{N_2 \cdot N_4 \cdot (N_2 - N_1 \cdot N_5) \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)}{N_2 \cdot N_4 \cdot (N_1 + N_2 \cdot N_5) \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

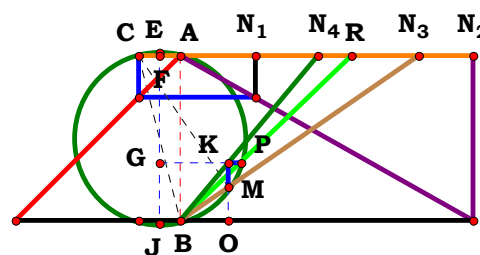
$$R - \frac{A \cdot [E \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)] - [B \cdot N_u \cdot (C^2 + N_u^2)]]}{E \cdot B \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot l \cdot (W \cdot l \cdot p - V \cdot Z \cdot m) \cdot (X^2 + n^2) + W \cdot X \cdot l \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot l \cdot n)}{Y \cdot W \cdot l \cdot (X^2 + n^2) \cdot (W \cdot Z \cdot l + V \cdot m \cdot p) + V \cdot X \cdot m \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot l \cdot n)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.37128$
 $N_5 = 4.00000$
 $R = -0.48440$
 $\frac{N_2 \cdot N_4 \cdot (N_2 - N_1 \cdot N_5) \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)}{N_2 \cdot N_4 \cdot (N_1 + N_2 \cdot N_5) \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)} - R = 0.00000$



$N_1 = 0.45264$	Unit.	$AB := 1$	Given.	$N_1 := .45264$	$N_2 := 1.76991$	$N_3 := 1.44532$	$N_4 := .83275$	
$N_2 = 1.76991$								
$N_3 = 1.44532$	$N_u := 3$	$A := \frac{N_u}{N_1}$	$B := \frac{N_u}{N_2}$	$C := \frac{N_u}{N_3}$	$D := \frac{N_u}{N_4}$			
$N_4 = 0.83275$								
$R = 1.03672$	$W := 20$	$X := 19$	$Y := 18$	$Z := 17$	$m := \frac{W}{N_1}$	$n := \frac{X}{N_2}$	$o := \frac{Y}{N_3}$	$p := \frac{Z}{N_4}$

Descriptions.

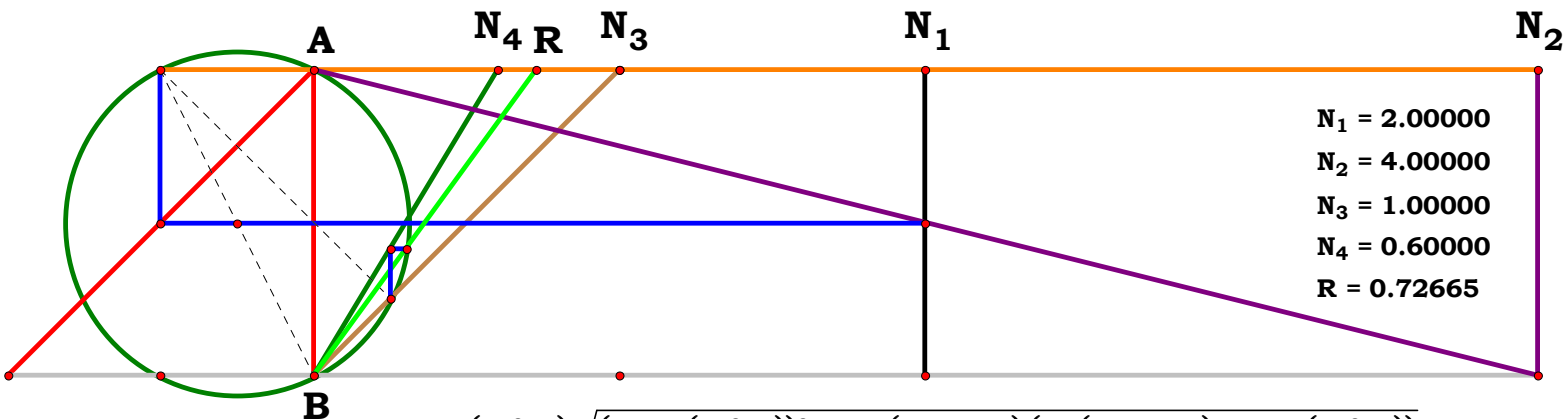
$$\mathbf{AD} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AD}^2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2} \quad \mathbf{MN}_3 := \frac{\mathbf{N}_3 \cdot (\mathbf{N}_3 + \mathbf{AD})}{\mathbf{BN}_3}$$

$$\mathbf{BM} := \mathbf{BN}_3 - \mathbf{MN}_3 \quad \mathbf{BO} := \frac{\mathbf{N}_3 \cdot \mathbf{BM}}{\mathbf{BN}_3} \quad \mathbf{KO} := \frac{\mathbf{BO}}{\mathbf{N}_4}$$

$$\mathbf{GJ} := \mathbf{KO} + \mathbf{EF} \quad \mathbf{EG} := \mathbf{EJ} - \mathbf{GJ} \quad \mathbf{GP} := \sqrt{\mathbf{EG} \cdot \mathbf{GJ}}$$

$$\mathbf{R} := \frac{\mathbf{GP} - \frac{\mathbf{AD}}{2}}{\mathbf{KO}} \quad \mathbf{R} = 1.03672$$



$$\frac{N_1 \cdot N_4 \cdot (N_3^2 + 1) - \sqrt{(N_1 \cdot N_4 \cdot (N_3^2 + 1))^2 + 4 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1))}}{2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)} - R = 0.00000$$

$N_1 = 2.00000$
 $N_2 = 4.00000$
 $N_3 = 1.00000$
 $N_4 = 0.60000$
 $R = 0.72665$

Definitions.

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_4^2} \cdot \mathbf{AD} \cdot \mathbf{N}_4 \cdot (\mathbf{N}_3^2 + 1) - \mathbf{N}_4 \cdot \sqrt{\mathbf{N}_3 \cdot \mathbf{N}_4} \cdot [\mathbf{AD} \cdot \mathbf{N}_3 \cdot (2 \cdot \mathbf{AD} \cdot \mathbf{N}_4 - 4 \cdot \mathbf{N}_3^2 + \mathbf{AD} \cdot \mathbf{N}_3^2 \cdot \mathbf{N}_4 - 4) + 4 \cdot \mathbf{N}_3^2 + 4] + 4 \cdot \mathbf{N}_3^2 \cdot [\mathbf{AD} \cdot \mathbf{N}_3 \cdot (2 - \mathbf{AD} \cdot \mathbf{N}_3) - 1] + \mathbf{AD}^2 \cdot \mathbf{N}_4^2}{2 \cdot \sqrt{\mathbf{N}_4^2} \cdot \mathbf{N}_3 \cdot (\mathbf{AD} \cdot \mathbf{N}_3 - 1)} = 0$$

$$R - \frac{N_1 \cdot N_4 \cdot (N_3^2 + 1) - \sqrt{N_1^2 \cdot N_4^2 \cdot (N_3^2 + 1)^2 + 4 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot [N_3 \cdot (N_1 \cdot N_3 - N_2) + N_2 \cdot N_4 \cdot (N_3^2 + 1)]}}{2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)} = 0$$

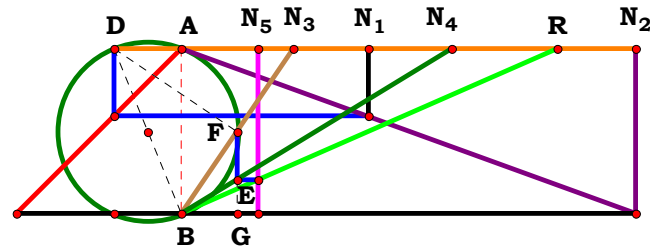
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\sqrt{4 \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u) \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_u \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_u)] + \mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2} - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{2 \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot (\mathbf{Y}^2 + \mathbf{o}^2) - \sqrt{\mathbf{Z}^2 \cdot \mathbf{W}^2 \cdot \mathbf{n}^2 \cdot (\mathbf{Y}^2 + \mathbf{o}^2)^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{m} \cdot \mathbf{p} \cdot (\mathbf{Y}^2 + \mathbf{o}^2) \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o}) - 4 \cdot \mathbf{Y}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})^2}}{2 \cdot \mathbf{Y} \cdot \mathbf{p} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o})} = 0$$



4RST4AB5R7



$N_1 = 1.13064$
 $N_2 = 2.74817$
 $N_3 = 0.68014$
 $N_4 = 1.63667$
 $N_5 = 0.46492$
 $R = 2.27207$

Unit. $AB := 1$ Given. $N_1 := 1.13064$ $N_2 := 2.74817$ $N_3 := .68014$ $N_4 := 1.63667$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .46492$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 2.272076$$

Definitions.

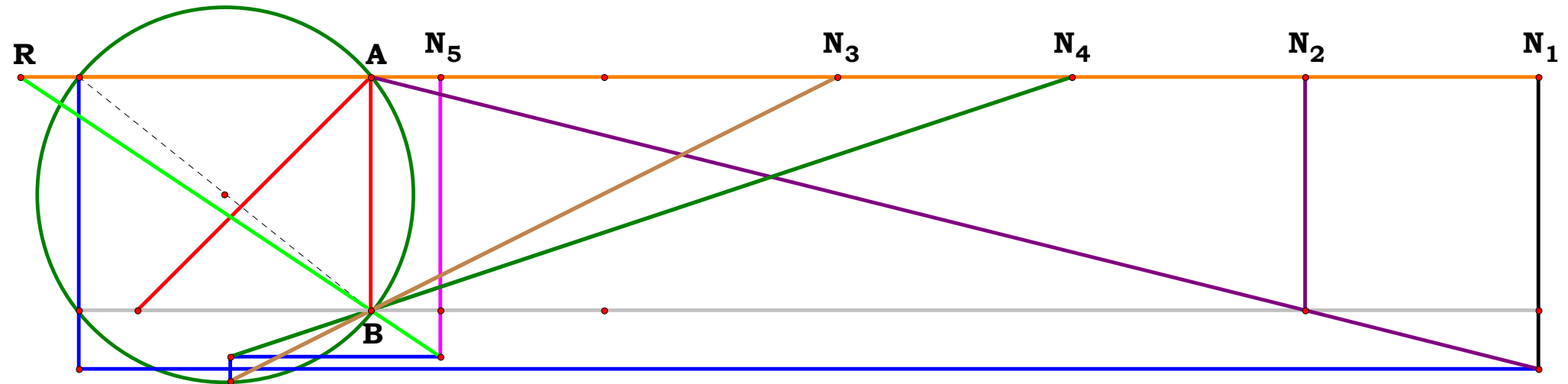
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [D \cdot (A \cdot C - B \cdot N_u)]} = 0$$

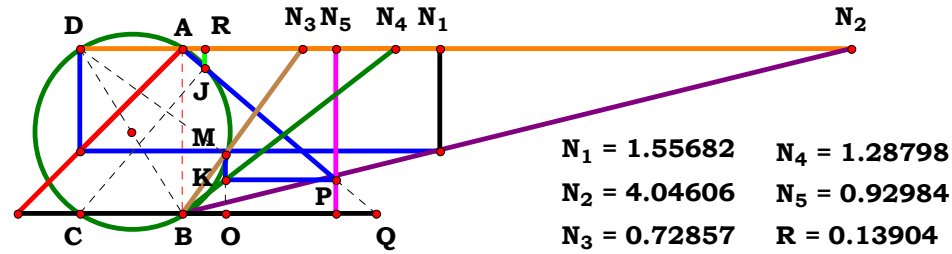
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (N_3^2 + 1)}{o \cdot p \cdot N_3 \cdot (W \cdot l - N_3 \cdot V \cdot m)} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 2.00000$
 $N_4 = 3.00000$
 $N_5 = 0.30000$
 $R = -1.50000$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 - N_1 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.55682$ $N_2 := 4.04606$ $N_3 := .72857$ $N_4 := 1.28798$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .92984$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

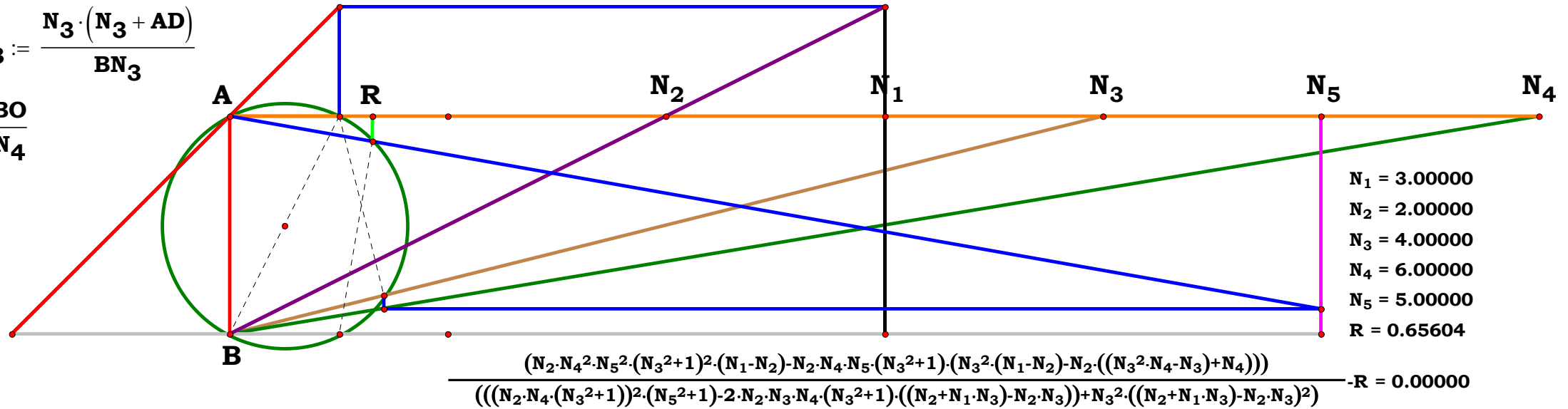
$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BM := BN_3 - MN_3 \quad BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4}$$

$$BQ := \frac{N_5}{AB - KO} \quad AQ := \sqrt{AB^2 + BQ^2}$$

$$JQ := \frac{BQ \cdot (BQ + AD)}{AQ} \quad AJ := AQ - JQ$$

$$R := \frac{BQ \cdot AJ}{AQ} \quad R = 0.139036$$



Definitions.

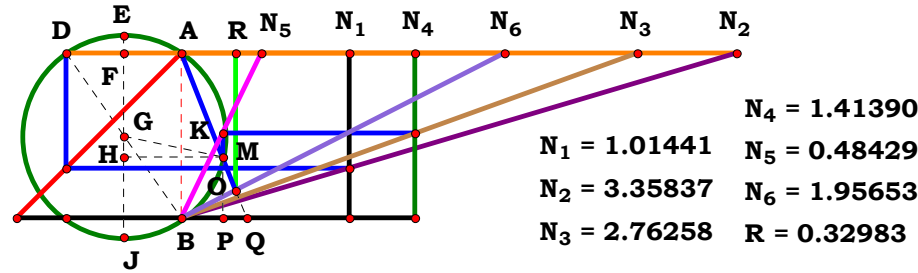
$$R - \frac{N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2) - N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot [N_3^2 \cdot (N_1 - N_2) - N_2 \cdot (N_3^2 \cdot N_4 - N_3 + N_4)]}{N_2^2 \cdot N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_5^2 + 1) - 2 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) + N_3^2 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot [A \cdot C^2 \cdot E - N_u^3 \cdot (A - B) - C^2 \cdot N_u \cdot (A - B) + A \cdot E \cdot N_u \cdot (D + N_u) - D \cdot E \cdot (A \cdot C + B \cdot N_u)]}{E^2 \cdot [A \cdot (C^2 + N_u^2) - A \cdot C \cdot D + D \cdot N_u \cdot (A - B)]^2 + A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2) \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot Z \cdot m - W \cdot Z \cdot l + W \cdot l \cdot p) - X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)]}{Y^2 \cdot W^2 \cdot l^2 \cdot (X^2 + n^2)^2 \cdot (Z^2 + p^2) - 2 \cdot Y \cdot W \cdot X \cdot l \cdot o \cdot p^2 \cdot (X^2 + n^2) \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n) + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)^2} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.01441$ $N_2 := 3.35837$ $N_3 := 2.76258$
 $N_4 := 1.41390$ $N_5 := .48429$ $N_6 := 1.95653$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$
 $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AD^2} \quad AF := \frac{AD}{2}$$

$$BP := N_5 \cdot \frac{N_4}{N_3} \quad HM := AF + BP$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - HM^2} \quad FH := \frac{AB}{2} + GH$$

$$BQ := \frac{HM - AF}{FH} \quad R := \frac{BQ \cdot N_6}{BQ + N_6}$$

$$R = 0.329837$$

Definitions.

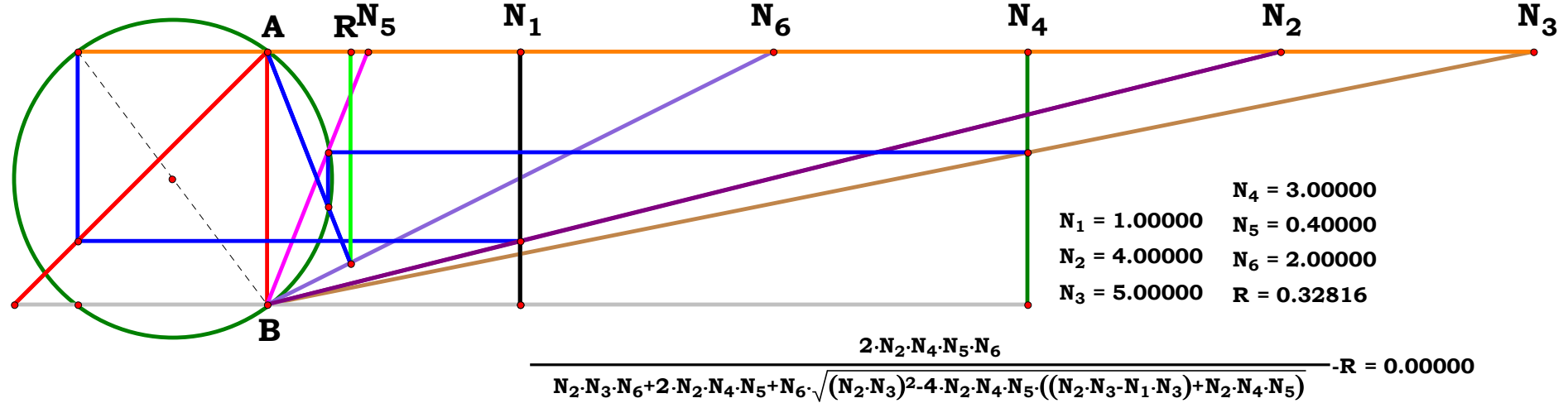
$$R - \frac{2 \cdot N_2 \cdot N_4 \cdot N_5 \cdot N_6}{N_6 \cdot \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)} + N_2 \cdot N_3 \cdot N_6 + 2 \cdot N_2 \cdot N_4 \cdot N_5} = 0$$

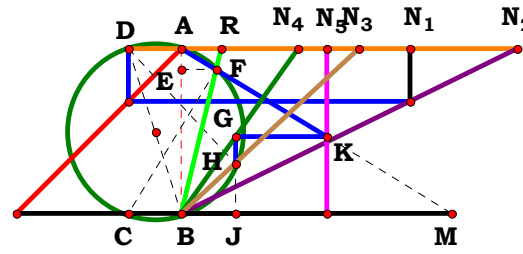
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot \sqrt{A}}{\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot [A \cdot C \cdot N_u + D \cdot E \cdot (A - B)]} + \sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot V \cdot X \cdot Y \cdot Z \cdot m \cdot \sqrt{k}}{Z \cdot \sqrt{V^2 \cdot k \cdot (W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2)} + 4 \cdot W \cdot V \cdot X \cdot Y \cdot m \cdot n \cdot o \cdot (U \cdot l - V \cdot k) + \sqrt{k} \cdot V \cdot (W \cdot Z \cdot n \cdot o + 2 \cdot X \cdot Y \cdot m \cdot p)} = 0$$





$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 1.07726$
 $N_4 = 0.70683$
 $N_5 = 0.88141$
 $R = 0.24288$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.07726$ $N_4 := .70683$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .88141$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

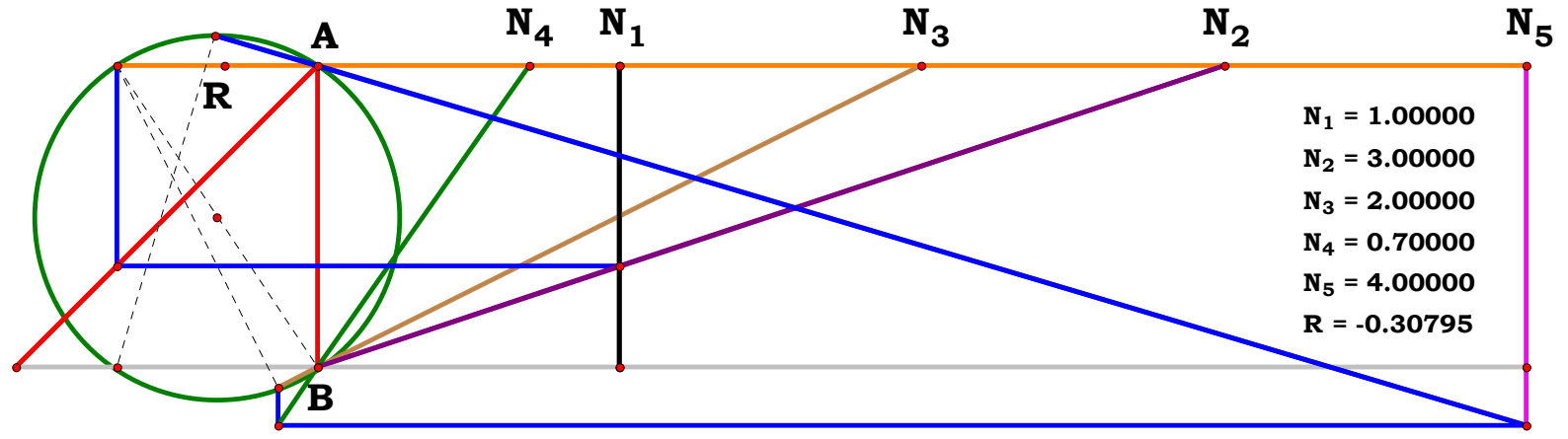
$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad GJ := \frac{BJ}{N_4}$$

$$BM := \frac{N_5}{AB - GJ} \quad AM := \sqrt{AB^2 + BM^2}$$

$$FM := \frac{BM \cdot (BM + AD)}{AM} \quad AF := AM - FM \quad EF := \frac{BM \cdot AF}{AM}$$

$$AE := \frac{AF}{AM} \quad R := \frac{EF}{AB - AE} \quad R = 0.242875$$



$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $N_4 = 0.70000$
 $N_5 = 4.00000$
 $R = -0.30795$

$$\frac{(N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2) - N_2 \cdot ((N_1 \cdot N_3^2 - N_2 \cdot N_3^2) + N_2 \cdot N_3) - N_2 \cdot N_4 - N_2 \cdot N_3^2 \cdot N_4))}{(N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + (N_1 - N_2) \cdot ((N_1 \cdot N_3^2 - N_2 \cdot N_3^2) + N_2 \cdot N_3) - N_2 \cdot N_4 - N_2 \cdot N_3^2 \cdot N_4))} \cdot R = 0.00000$$

Definitions.

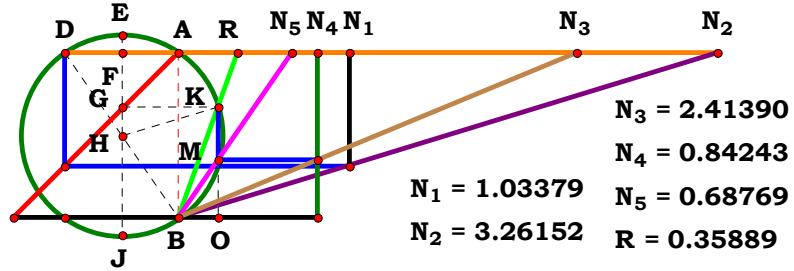
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2) - N_2 \cdot (N_1 \cdot N_3^2 - N_2 \cdot N_3^2 + N_2 \cdot N_3 - N_2 \cdot N_4 - N_2 \cdot N_3^2 \cdot N_4)}{N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + (N_1 - N_2) \cdot (N_1 \cdot N_3^2 - N_2 \cdot N_3^2 + N_2 \cdot N_3 - N_2 \cdot N_4 - N_2 \cdot N_3^2 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot A \cdot [A \cdot C \cdot (C - D) + N_u \cdot [D \cdot (A - B) + A \cdot N_u]] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)}{E \cdot (A - B) \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot 1 \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot Z \cdot m - W \cdot Z \cdot 1 + W \cdot 1 \cdot p) - X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)]}{Y \cdot W \cdot 1 \cdot (X^2 + n^2) \cdot (W \cdot Z \cdot 1 - V \cdot m \cdot p + W \cdot 1 \cdot p) + X \cdot o \cdot p \cdot (V \cdot m - W \cdot 1) \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.03379$ $N_2 := 3.26152$ $N_3 := 2.41390$ $N_4 := .84243$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .68769$
 $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$GK := \frac{AD}{2} + BO \quad EJ := \sqrt{AB^2 + AD^2}$$

$$GH := \sqrt{\left(\frac{EJ}{2}\right)^2 - GK^2} \quad EF := \frac{EJ - AB}{2}$$

$$KO := \frac{EJ}{2} + GH - EF \quad R := \frac{BO}{KO} \quad R = 0.358879$$

Definitions.

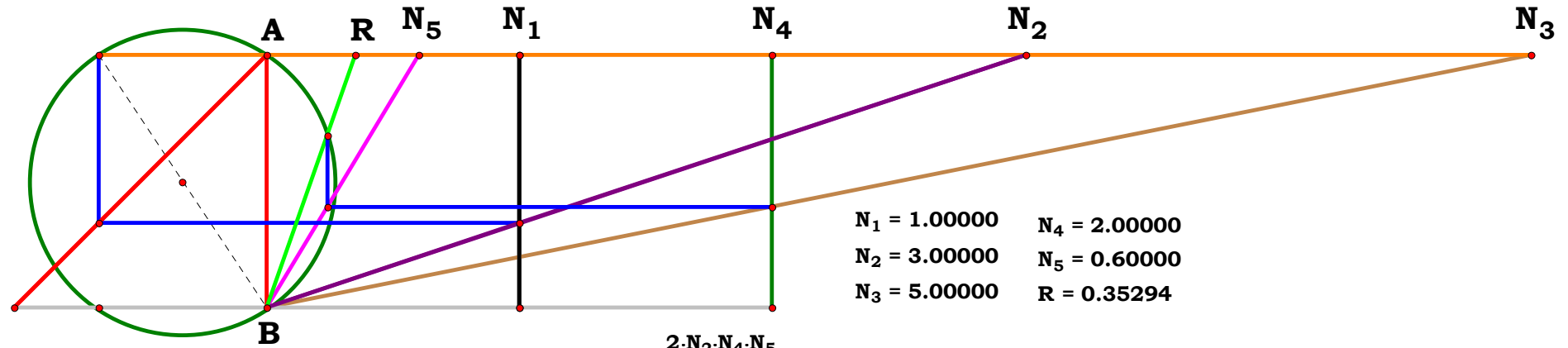
$$R - \frac{2 \cdot N_2 \cdot N_4 \cdot N_5}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot \sqrt{A}}{\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot [A \cdot C \cdot N_u + D \cdot E \cdot (A - B)]} + \sqrt{A \cdot D \cdot E}} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot N_2 \cdot N_4 \cdot N_5}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)}} = 0$$

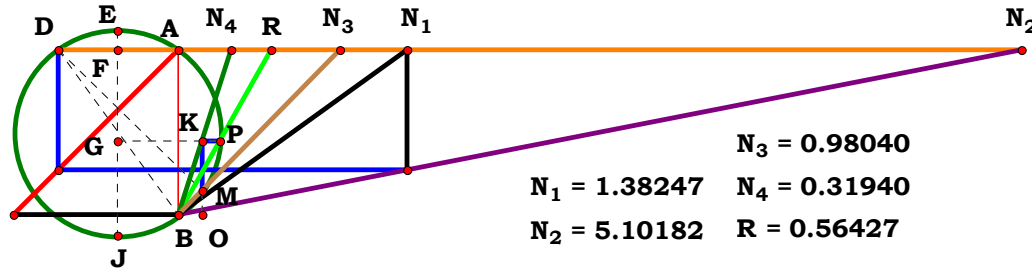


$$N_1 = 1.00000 \quad N_4 = 2.00000$$

$$N_2 = 3.00000 \quad N_5 = 0.60000$$

$$N_3 = 5.00000 \quad R = 0.35294$$

$$\frac{2 \cdot N_2 \cdot N_4 \cdot N_5}{N_2 \cdot N_3 + \sqrt{(N_2 \cdot N_3)^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot ((N_2 \cdot N_3 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_5)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 5.10182$ $N_3 := .98040$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $N_4 := .31940$
 $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

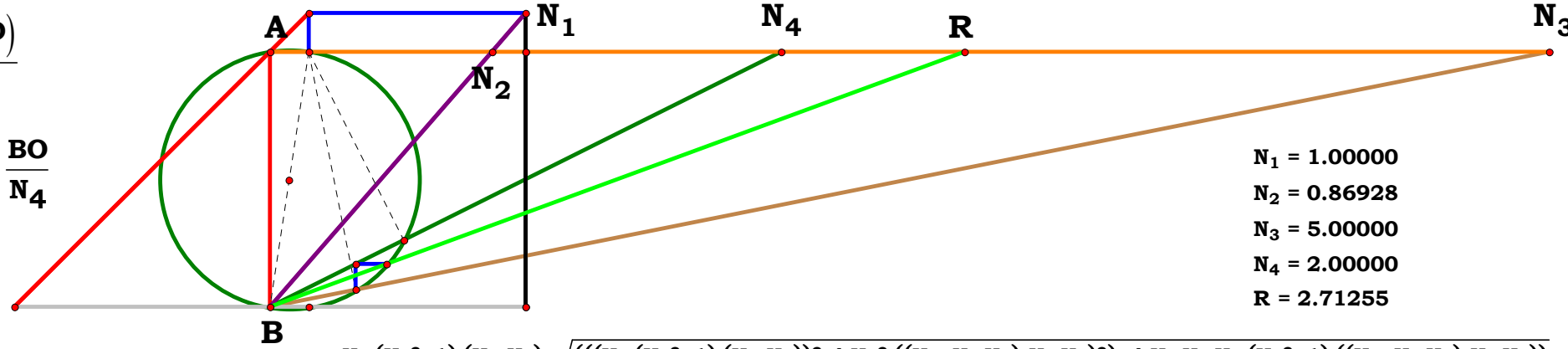
$$AD := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AD^2} \quad EF := \frac{EJ - AB}{2}$$

$$BN_3 := \sqrt{AB^2 + N_3^2} \quad MN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BM := BN_3 - MN_3 \quad BO := \frac{N_3 \cdot BM}{BN_3} \quad KO := \frac{BO}{N_4}$$

$$GJ := KO + EF \quad EG := EJ - GJ$$

$$GP := \sqrt{EG \cdot GJ} \quad R := \frac{GP - \frac{AD}{2}}{KO} \quad R = 0.564269$$



$$N_1 = 1.00000$$

$$N_2 = 0.86928$$

$$N_3 = 5.00000$$

$$N_4 = 2.00000$$

$$R = 2.71255$$

$$\frac{N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2) + \sqrt{(((N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2))^2 - 4 \cdot N_3^2 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2) + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3))}}{2 \cdot N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$

Definitions.

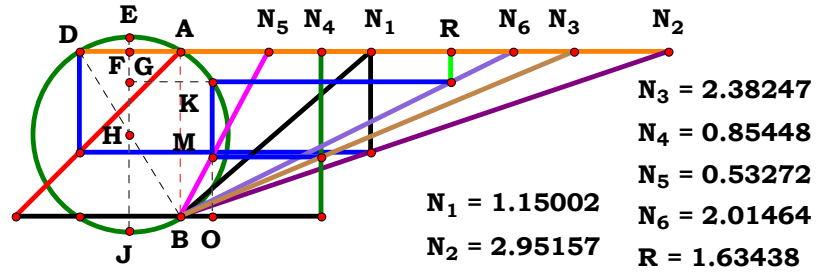
$$R - \frac{\sqrt{N_4^2 \cdot AD \cdot N_4 \cdot (N_3^2 + 1)} - N_4 \cdot \sqrt{N_3 \cdot N_4 \cdot [AD \cdot N_3 \cdot (2 \cdot AD \cdot N_4 - 4 \cdot N_3^2 + AD \cdot N_3^2 \cdot N_4 - 4) + 4 \cdot N_3^2 + 4] + 4 \cdot N_3^2 \cdot [AD \cdot N_3 \cdot (2 - AD \cdot N_3) - 1] + AD^2 \cdot N_4^2}}{2 \cdot \sqrt{N_4^2 \cdot N_3 \cdot (AD \cdot N_3 - 1)}} = 0$$

$$R - \frac{\sqrt{N_4^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_3^2 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2 + 4 \cdot N_2 \cdot N_3 \cdot N_4 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) + N_4 \cdot (N_3^2 + 1) \cdot (N_1 - N_2)}}{2 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{4 \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)] + (C^2 + N_u^2)^2 \cdot (A - B)^2 - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{2 \cdot D \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Z^2 \cdot (Y^2 + o^2)^2 \cdot (W \cdot n - X \cdot m)^2 + 4 \cdot Z \cdot X \cdot Y \cdot m \cdot p \cdot (Y^2 + o^2) \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o) - 4 \cdot Y^2 \cdot p^2 \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o)^2 + Z \cdot (Y^2 + o^2) \cdot (W \cdot n - X \cdot m)}}{2 \cdot Y \cdot p \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + X \cdot m \cdot o)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := 2.95157$ $N_3 := 2.38247$
 $N_4 := .85448$ $N_5 := .53272$ $N_6 := 2.01464$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$FK := BO + \frac{AD}{2} \quad EJ := \sqrt{AD^2 + AB^2}$$

$$HK := \frac{EJ}{2} \quad FH := \sqrt{HK^2 - FK^2}$$

$$EF := \frac{EJ - AB}{2} \quad KO := HK + FH - EF$$

$$R := N_6 \cdot KO \quad R = 1.634379$$

Definitions.

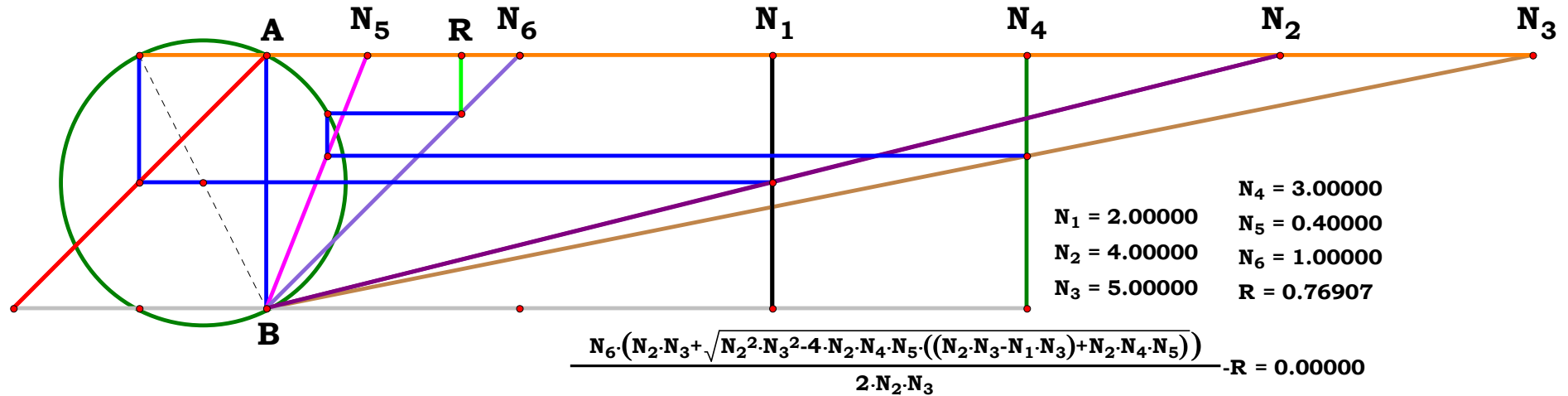
$$R - \frac{N_6 \cdot \left[N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)} \right]}{2 \cdot N_2 \cdot N_3} = 0$$

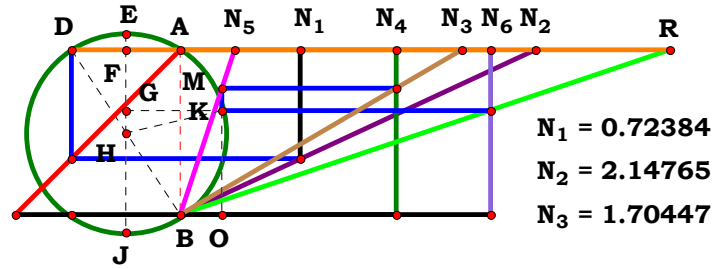
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot [A \cdot C \cdot N_u + D \cdot E \cdot (A - B)]} + \sqrt{A \cdot D \cdot E} \right]}{2 \cdot F \cdot \sqrt{A \cdot D \cdot E}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{4 \cdot Y \cdot V \cdot W \cdot X \cdot m \cdot n \cdot o \cdot (U \cdot l - V \cdot k)} + V^2 \cdot k \cdot (W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2) + V \cdot W \cdot \sqrt{k \cdot n \cdot o} \right]}{2 \cdot V \cdot W \cdot p \cdot \sqrt{k \cdot n \cdot o}} = 0$$





$$\begin{aligned} N_1 &= 0.72384 & N_4 &= 1.30972 \\ N_2 &= 2.14765 & N_5 &= 0.32932 \\ N_3 &= 1.70447 & N_6 &= 1.87904 \\ R &= 2.95944 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .72384 \quad N_2 := 2.14765 \quad N_3 := 1.70447$$

$$N_4 := 1.30972 \quad N_5 := .32932 \quad N_6 := 1.87904$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO$$

$$EJ := \sqrt{AD^2 + AB^2} \quad EF := \frac{EJ - AB}{2}$$

$$HK := \frac{EJ}{2} \quad GK := \frac{AD}{2} + BO$$

$$GH := \sqrt{HK^2 - GK^2} \quad KO := HK + GH - EF$$

$$R := \frac{N_6}{KO} \quad R = 2.959505$$

Definitions.

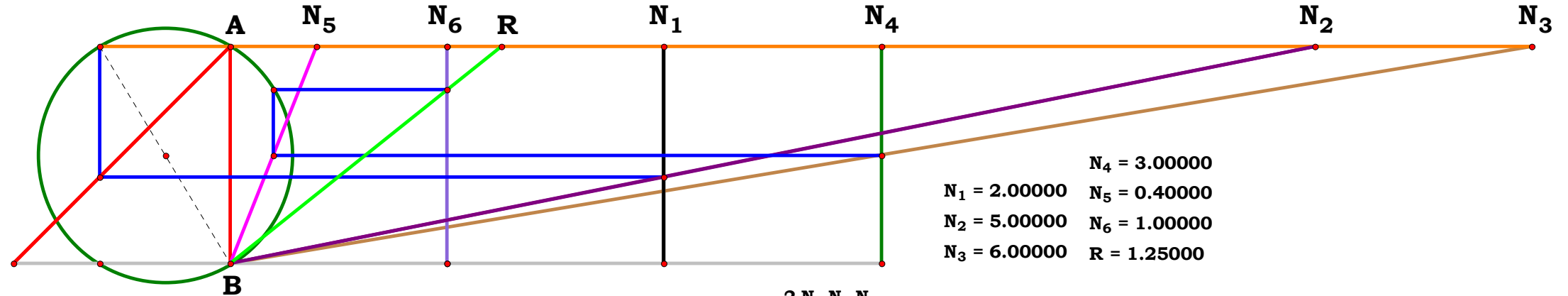
$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot N_6}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{A \cdot D \cdot E}}{F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot [A \cdot C \cdot N_u + D \cdot E \cdot (A - B)]} + \sqrt{A \cdot D \cdot E} \right]} = 0$$

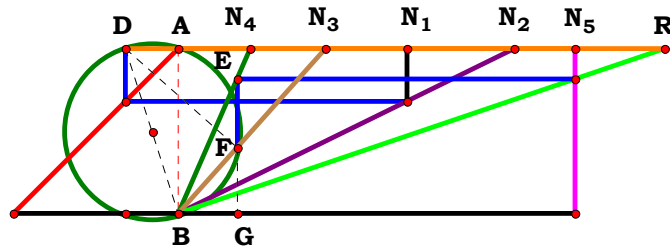
$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot V \cdot W \cdot Z \cdot \sqrt{k \cdot n \cdot o}}{p \cdot \left[\sqrt{4 \cdot Y \cdot V \cdot W \cdot X \cdot m \cdot n \cdot o \cdot (U \cdot l - V \cdot k)} + V^2 \cdot k \cdot (W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2) + V \cdot W \cdot \sqrt{k \cdot n \cdot o} \right]} = 0$$



$$\begin{aligned} N_1 &= 2.00000 & N_4 &= 3.00000 \\ N_2 &= 5.00000 & N_5 &= 0.40000 \\ N_3 &= 6.00000 & N_6 &= 1.00000 \\ R &= 1.25000 \end{aligned}$$

$$\frac{2 \cdot N_2 \cdot N_3 \cdot N_6}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot ((N_2 \cdot N_3 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_5)}} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.89323$
 $N_4 = 0.43563$
 $N_5 = 2.40207$
 $R = 2.94715$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .89323$
 $N_4 := .43563$ $N_5 := 2.40207$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 2.947144$$

Definitions.

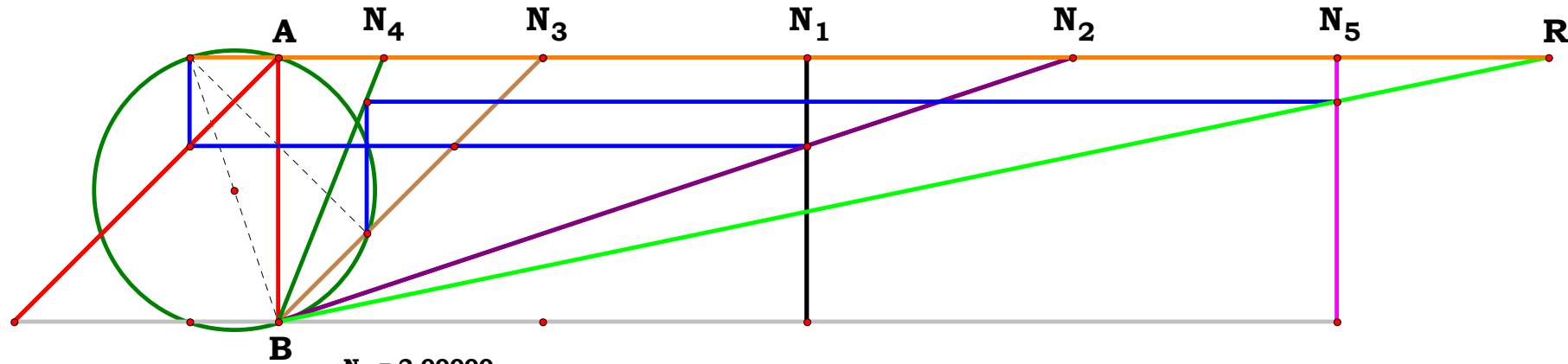
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [A \cdot C \cdot D - D \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.40000$
 $N_5 = 4.00000$
 $R = 4.80000$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} \cdot R = 0.00000$$



4RST4AB6R8

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AD^2 + AB^2} \quad EF := \frac{EJ - AB}{2}$$

$$MO := \frac{N_4}{N_3} \quad BO := N_5 \cdot MO \quad GK := BO + \frac{AD}{2}$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := HK + GH - EF \quad R := \frac{N_6}{KO}$$

$$R = 2.887152$$

Definitions.

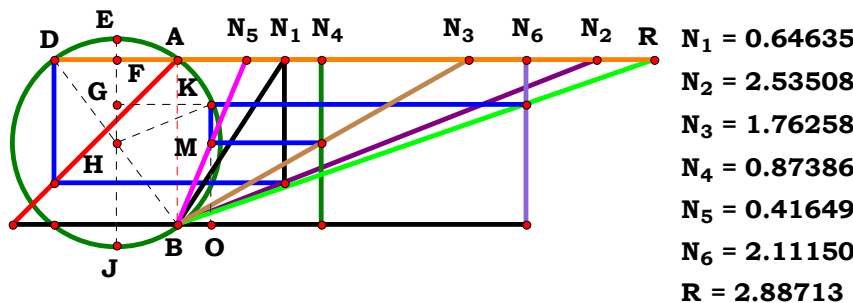
$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot N_6}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{A \cdot D \cdot E}}{F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot C \cdot N_u + D \cdot E \cdot (A - B))} + \sqrt{A \cdot D \cdot E} \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

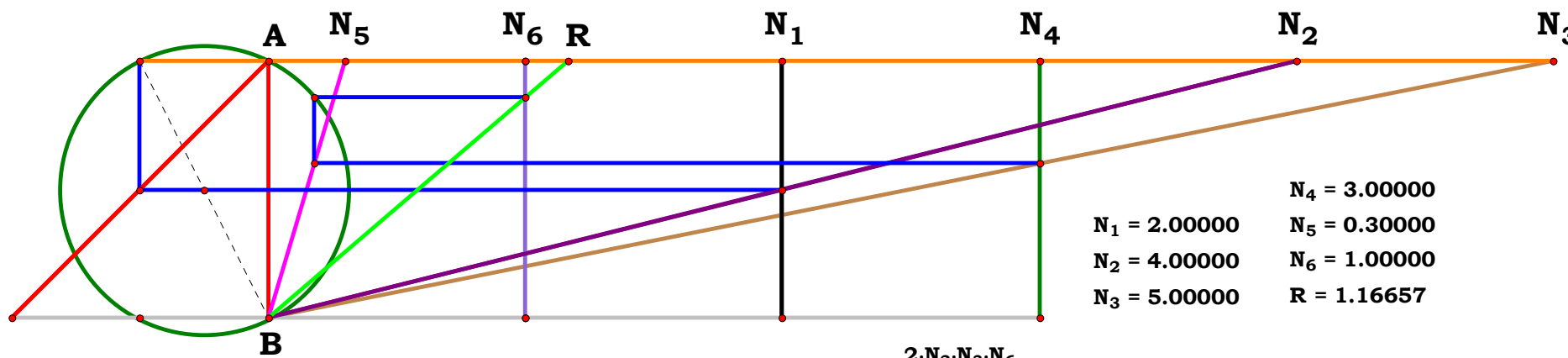
$$R - \frac{2 \cdot V \cdot W \cdot Z \cdot \sqrt{k \cdot n \cdot o}}{p \cdot \left[\sqrt{4 \cdot Y \cdot V \cdot W \cdot X \cdot m \cdot n \cdot o \cdot (U \cdot l - V \cdot k)} + V^2 \cdot k \cdot (W^2 \cdot n^2 \cdot o^2 - 4 \cdot X^2 \cdot Y^2 \cdot m^2) + V \cdot W \cdot \sqrt{k \cdot n \cdot o} \right]} = 0$$



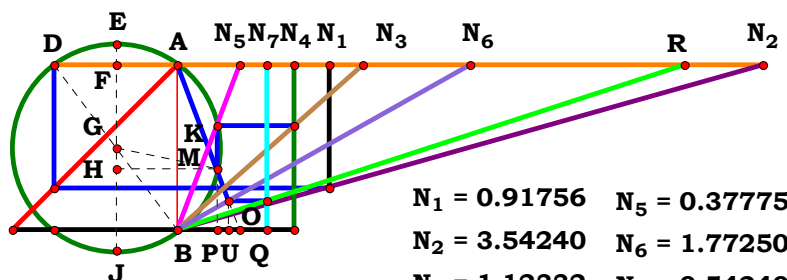
Unit. $AB := 1$ Given. $N_1 := .64635$ $N_2 := 2.53508$ $N_3 := 1.76258$
 $N_4 := .87386$ $N_5 := .41649$ $N_6 := 2.11150$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$



$$\frac{2 \cdot N_2 \cdot N_3 \cdot N_6}{N_2 \cdot N_3 + \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot ((N_2 \cdot N_3 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_5)}} - R = 0.00000$$



$$\begin{aligned} N_1 &= 0.91756 & N_5 &= 0.37775 \\ N_2 &= 3.54240 & N_6 &= 1.77250 \\ N_3 &= 1.12332 & N_7 &= 0.54240 \\ N_4 &= 0.70920 & R &= 3.07450 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= .91756 & N_2 &:= 3.54240 & N_3 &:= 1.12332 & N_4 &:= .70920 \\ & & N_5 &:= .37775 & N_6 &:= 1.77250 & N_7 &:= .54240 \end{aligned}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$

Descriptions.

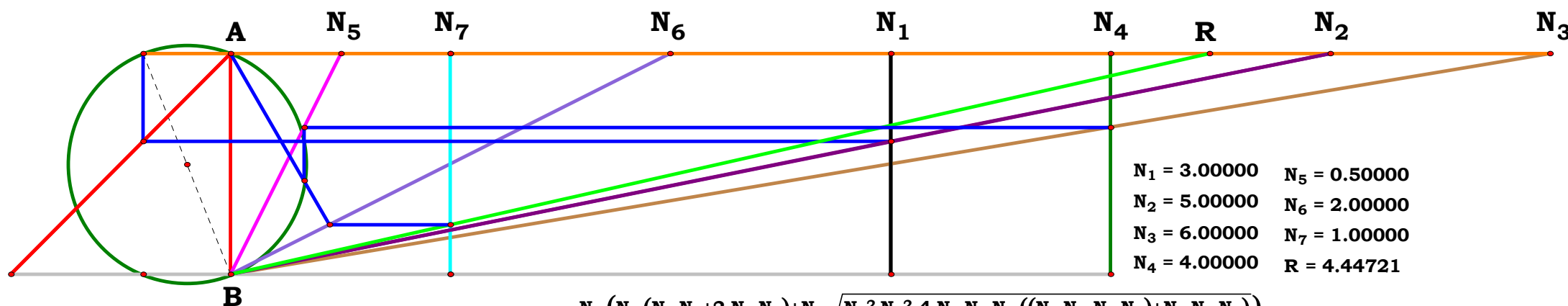
$$AD := \frac{N_2 - N_1}{N_2} \quad BP := N_5 \cdot \frac{N_4}{N_3} \quad EJ := \sqrt{AD^2 + AB^2}$$

$$EF := \frac{EJ - AB}{2} \quad GM := \frac{EJ}{2} \quad HM := \frac{AD}{2} + BP$$

$$GH := \sqrt{GM^2 - HM^2} \quad FH := GM + GH - EF$$

$$BQ := \frac{BP}{FH} \quad BU := \frac{N_6 \cdot BQ}{N_6 + BQ} \quad OU := \frac{BU}{N_6}$$

$$R := \frac{N_7}{OU} \quad R = 3.074367$$



$$\begin{aligned} N_1 &= 3.00000 & N_5 &= 0.50000 \\ N_2 &= 5.00000 & N_6 &= 2.00000 \\ N_3 &= 6.00000 & N_7 &= 1.00000 \\ N_4 &= 4.00000 & R &= 4.44721 \end{aligned}$$

Definitions.

$$R - \frac{N_7 \cdot \left[N_6 \cdot \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot N_3 - N_1 \cdot N_3 + N_2 \cdot N_4 \cdot N_5)} + N_2 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) \right]}{2 \cdot N_2 \cdot N_4 \cdot N_5} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot [A \cdot C \cdot N_u + D \cdot E \cdot (A - B)]} + \sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E) \right]}{2 \cdot C \cdot F \cdot G \cdot \sqrt{A}} = 0$$

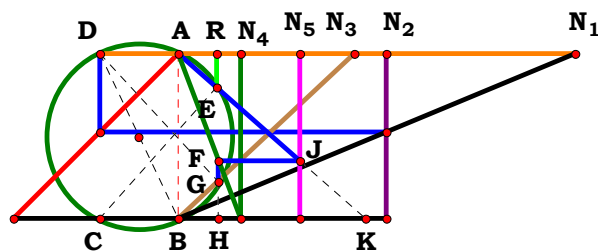
$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[Y \cdot \sqrt{U^2 \cdot j \cdot (V^2 \cdot m^2 \cdot n^2 - 4 \cdot W^2 \cdot X^2 \cdot l^2)} + 4 \cdot V \cdot U \cdot W \cdot X \cdot l \cdot m \cdot n \cdot (T \cdot k - U \cdot j) + \sqrt{j} \cdot U \cdot (V \cdot Y \cdot m \cdot n + 2 \cdot W \cdot X \cdot l \cdot o) \right]}{2 \cdot U \cdot W \cdot X \cdot l \cdot o \cdot p \cdot \sqrt{j}} = 0$$

$$\frac{N_7 \cdot (N_2 \cdot (N_3 \cdot N_6 + 2 \cdot N_4 \cdot N_5) + N_6 \cdot \sqrt{N_2^2 \cdot N_3^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot ((N_2 \cdot N_3 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_5)})}{2 \cdot N_2 \cdot N_4 \cdot N_5} - R = 0.00000$$



4RST5AB1R0



$N_1 = 2.39948$
 $N_2 = 1.25656$
 $N_3 = 1.06757$
 $N_4 = 0.37752$
 $N_5 = 0.73612$
 $R = 0.22832$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.25656$ $N_3 := 1.06757$ $N_4 := .37752$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $N_5 := .73612$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad GN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BG := BN_3 - GN_3 \quad BH := \frac{N_3 \cdot BG}{BN_3} \quad FH := \frac{N_4 - BH}{N_4}$$

$$BK := \frac{N_5}{AB - FH} \quad AK := \sqrt{AB^2 + BK^2}$$

$$EK := \frac{BK \cdot (BK + AD)}{AK} \quad AE := AK - EK$$

$$R := \frac{BK \cdot AE}{AK} \quad R = 0.228316$$

Definitions.

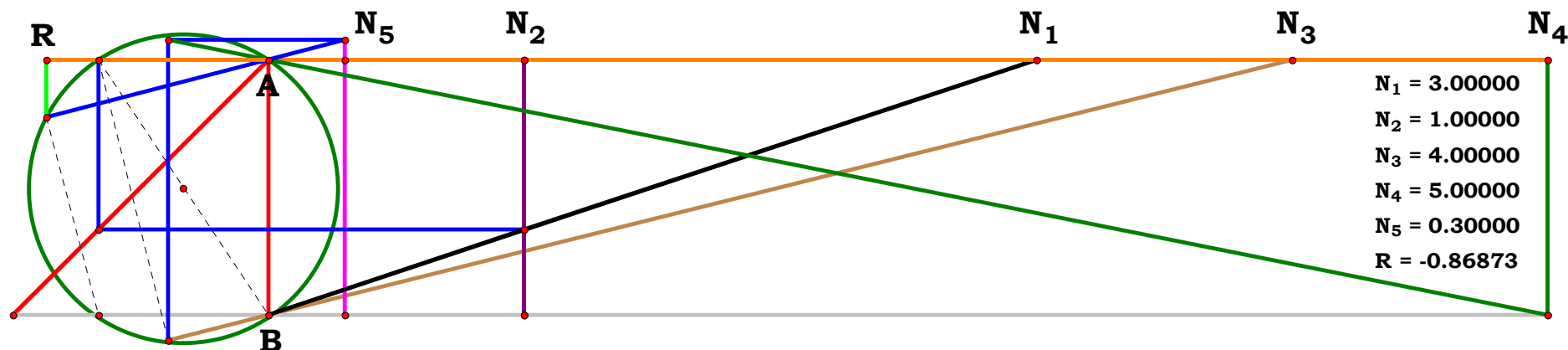
$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_3 - AD \cdot N_3^2 - AD \cdot N_4 \cdot N_5 - AD \cdot N_3^2 \cdot N_4 \cdot N_5)}{AD^2 \cdot N_3^4 - 2 \cdot AD \cdot N_3^3 + N_3^4 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_3^2 \cdot N_4^2 \cdot N_5^2 + N_3^2 + N_4^2 \cdot N_5^2} = 0$$

$$R - \frac{N_1 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2)}{N_1^2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 + N_3^2 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

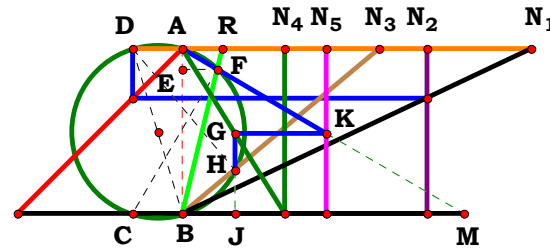
$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2) \cdot [N_u \cdot (C^2 + N_u^2) \cdot (A - B) + D \cdot E \cdot N_u \cdot (A - B) + B \cdot C \cdot D \cdot E]}{E^2 \cdot D^2 \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0 \quad N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2) \cdot [Y \cdot Z \cdot (X^2 + n^2) \cdot (W \cdot l - V \cdot m) + X \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)]}{Y^2 \cdot V^2 \cdot Z^2 \cdot m^2 \cdot (X^2 + n^2)^2 + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - W \cdot X \cdot l - V \cdot m \cdot n)^2} = 0$$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $N_5 = 0.30000$
 $R = -0.86873$

$$\frac{N_1 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3) - N_1 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 - N_2) \cdot (N_3^2 + 1)^2}{(N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))^2 + N_3^2 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)^2} \cdot R = 0.00000$$



$N_1 = 2.10891$
 $N_2 = 1.47933$
 $N_3 = 1.19349$
 $N_4 = 0.61966$
 $N_5 = 0.87172$
 $R = 0.24517$

Unit. $AB := 1$ Given. $N_1 := 2.10891$ $N_2 := 1.47933$ $N_3 := 1.19349$ $N_4 := .61966$

$N_5 := .87172$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

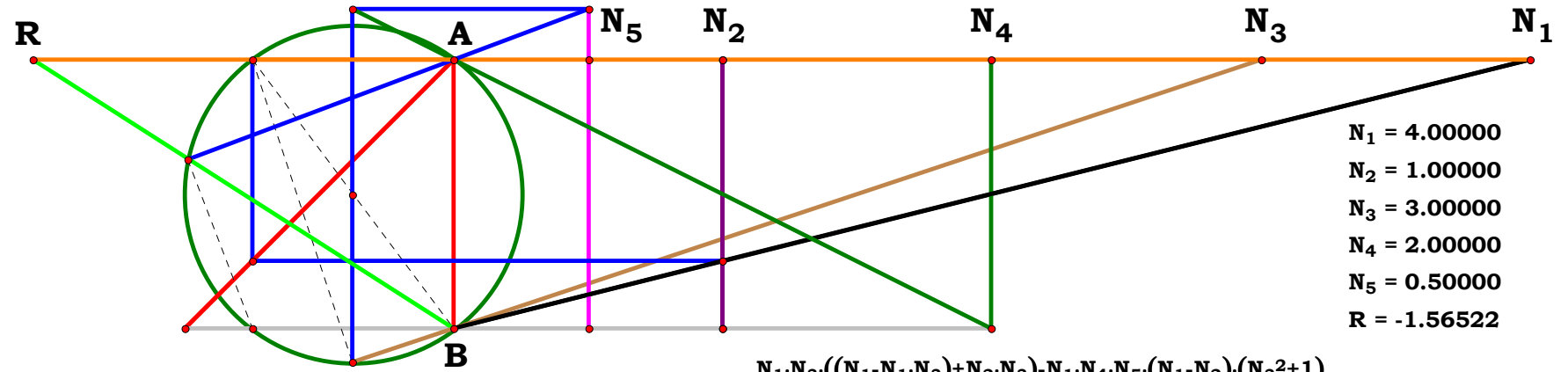
$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad HJ := \frac{N_4 - BJ}{N_4}$$

$$BM := \frac{N_5}{AB - HJ} \quad AM := \sqrt{AB^2 + BM^2}$$

$$FM := \frac{BM \cdot (BM + AD)}{AM} \quad AF := AM - FM \quad AE := \frac{AF}{AM}$$

$$EF := \frac{BM \cdot AF}{AM} \quad R := \frac{EF}{AB - AE} \quad R = 0.245164$$



$N_1 = 4.00000$
 $N_2 = 1.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $N_5 = 0.50000$
 $R = -1.56522$

$$\frac{N_1 \cdot N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2) \cdot (N_3^2 + 1)}{N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_3 \cdot (N_1 - N_2) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)} - R = 0.00000$$

Definitions.

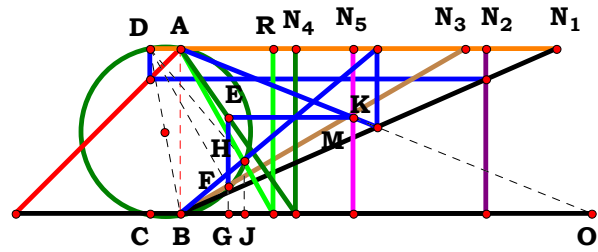
$$R - \frac{AD \cdot N_3^2 - N_3 + AD \cdot N_4 \cdot N_5 + AD \cdot N_3^2 \cdot N_4 \cdot N_5}{AD^2 \cdot N_3^2 - AD \cdot N_3 - N_4 \cdot N_5 \cdot N_3^2 - N_4 \cdot N_5} = 0$$

$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2)}{N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_3 \cdot (N_1 - N_2) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot [E \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + N_u \cdot (C^2 + N_u^2) \cdot (A - B)]}{B^2 \cdot N_u \cdot (C^2 + N_u^2) - E \cdot D \cdot (A - B) \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)} = 0 \quad N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot m \cdot [Y \cdot Z \cdot (X^2 + n^2) \cdot (W \cdot 1 - V \cdot m) + X \cdot o \cdot p \cdot (W \cdot X \cdot 1 - V \cdot X \cdot m + V \cdot m \cdot n)]}{Y \cdot V^2 \cdot Z \cdot m^2 \cdot (X^2 + n^2) + X \cdot o \cdot p \cdot (V \cdot m - W \cdot 1) \cdot (W \cdot X \cdot 1 - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$



$N_1 = 2.27357$
 $N_2 = 1.84739$
 $N_3 = 1.72621$
 $N_4 = 0.69715$
 $N_5 = 1.04606$
 $R = 0.56545$

Unit. $AB := 1$ Given. $N_1 := 2.27357$ $N_2 := 1.84739$ $N_3 := 1.72621$
 $N_4 := .69715$ $N_5 := 1.04606$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BO := \frac{N_5}{AB - EG} \quad AK := \frac{BO \cdot N_1}{BO + N_1}$$

$$BK := \sqrt{AB^2 + AK^2} \quad HK := \frac{AK \cdot (AK + AD)}{BK}$$

$$BH := BK - HK \quad BJ := \frac{AK \cdot BH}{BK}$$

$$HJ := \frac{BJ}{AK} \quad R := \frac{BJ}{AB - HJ} \quad R = 0.565442$$

Definitions.

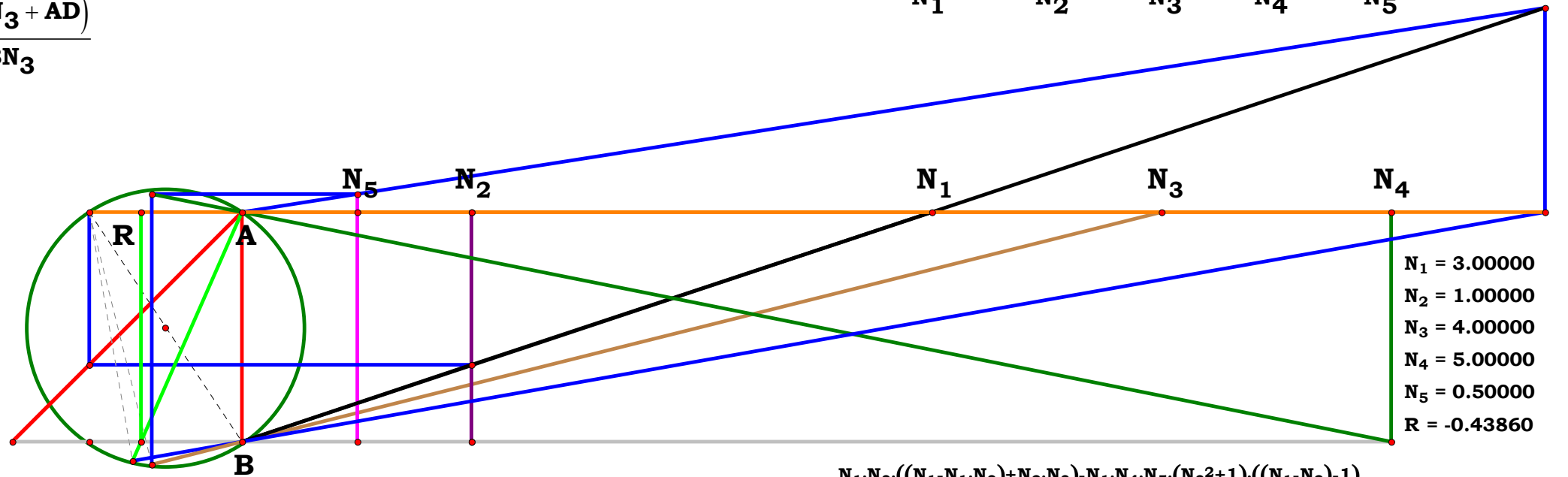
$$R - \frac{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 \cdot N_4 \cdot N_5}{N_4 \cdot N_5 \cdot AD \cdot N_3^2 - N_1 \cdot AD^2 \cdot N_3^2 + N_1 \cdot AD \cdot N_3 + N_4 \cdot N_5 \cdot AD + N_1 \cdot N_4 \cdot N_5 \cdot N_3^2 + N_1 \cdot N_4 \cdot N_5} = 0$$

$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2 - 1)}{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1^2 + N_1 - N_2) + N_3 \cdot (N_1 - N_2) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

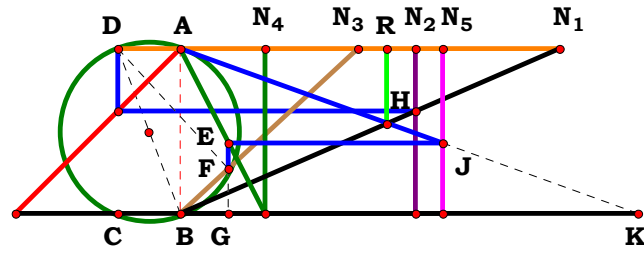
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot B \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + B \cdot (C^2 + N_u^2) \cdot [A \cdot B + N_u \cdot (A - B)]}{B \cdot (C^2 + N_u^2) \cdot (A \cdot B - A^2 + B \cdot N_u) - E \cdot D \cdot (A - B) \cdot [B \cdot C + N_u \cdot (A - B)]} = 0 \quad N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot m \cdot [Y \cdot Z \cdot (X^2 + n^2) \cdot (W \cdot l - V \cdot m + l \cdot m) + X \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)]}{Y \cdot Z \cdot m \cdot (X^2 + n^2) \cdot (m \cdot V^2 + m \cdot V \cdot l - W \cdot l^2) + X \cdot o \cdot p \cdot (V \cdot m - W \cdot l) \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$



$$\frac{N_1 \cdot N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_1 - N_2) - 1)}{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1^2 + (N_1 - N_2)) + N_3 \cdot (N_1 - N_2) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 2.29294$
 $N_2 = 1.42122$
 $N_3 = 1.07726$
 $N_4 = 0.51312$
 $N_5 = 1.58847$
 $R = 1.25419$

Unit. $AB := 1$ Given. $N_1 := 2.29294$ $N_2 := 1.42122$ $N_3 := 1.07726$
 $N_4 := .51312$ $N_5 := 1.58847$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BK := \frac{N_5}{AB - EG} \quad R := \frac{BK \cdot N_1}{BK + N_1}$$

$R = 1.25419$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

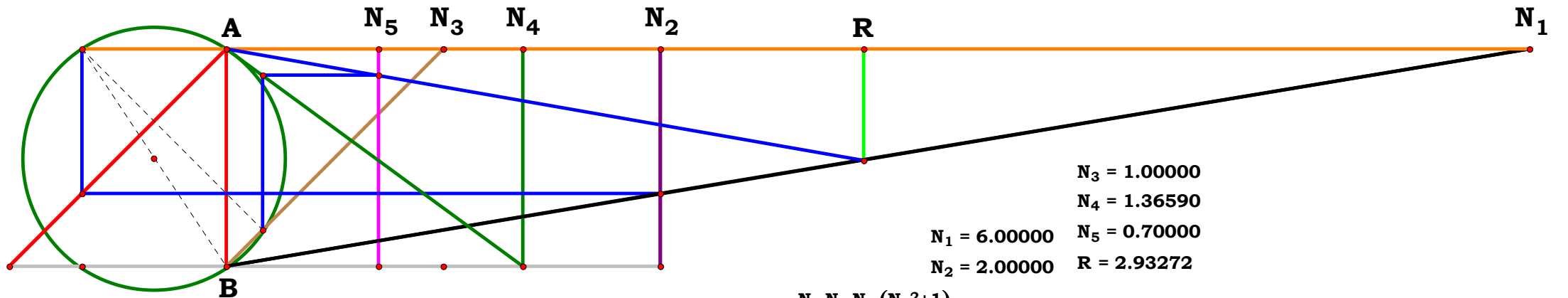
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_2 \cdot N_3^2 - N_1 \cdot N_3^2 + N_1 \cdot N_3 + N_4 \cdot N_5 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + A \cdot B \cdot (C^2 + N_u^2)} = 0 \quad N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

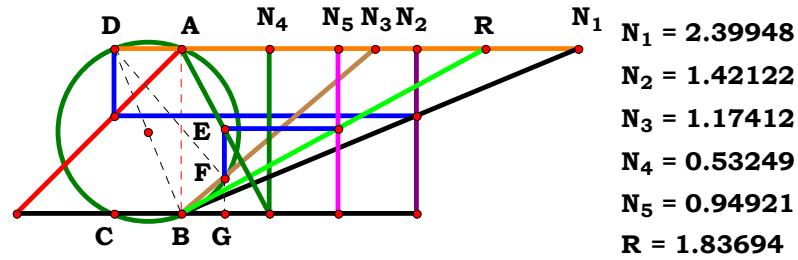
$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)}{Y \cdot Z \cdot 1 \cdot m \cdot (X^2 + n^2) + X \cdot o \cdot p \cdot (W \cdot X \cdot 1 - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$N_3 = 1.00000$
 $N_4 = 1.36590$
 $N_1 = 6.00000$ $N_5 = 0.70000$
 $N_2 = 2.00000$ $R = 2.93272$

$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_2 \cdot N_3^2 - N_1 \cdot N_3^2) + N_1 \cdot N_3 + N_4 \cdot N_5 + N_3^2 \cdot N_4 \cdot N_5} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.17412$
 $N_4 := .53249$ $N_5 := .94921$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 1.836947$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 - N_3 + N_3^2 \cdot N_4 + AD \cdot N_3^2} = 0$$

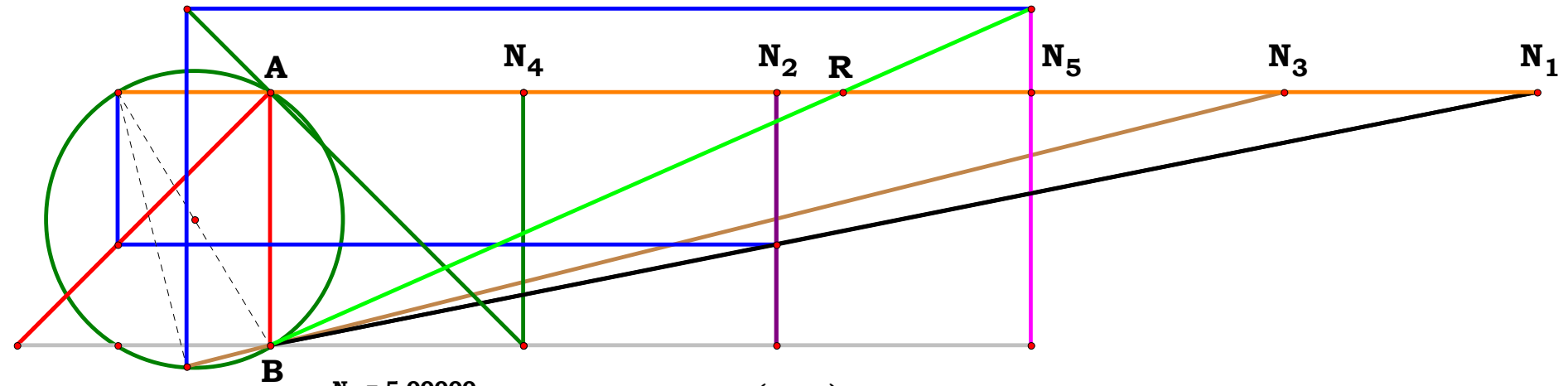
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3^2 - N_2 \cdot N_3^2 - N_1 \cdot N_3 + N_1 \cdot N_4 + N_1 \cdot N_3^2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot (C - D) + B \cdot N_u^2 - D \cdot N_u \cdot (A - B)]} = 0$$

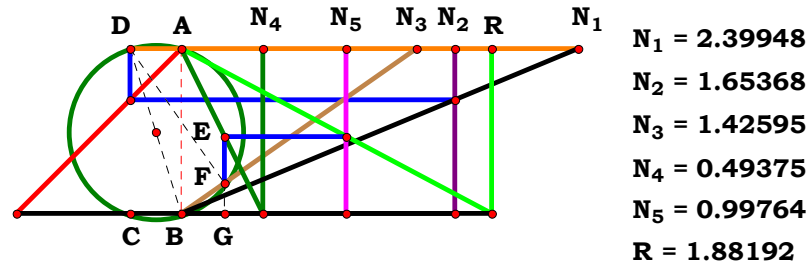
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)}{p \cdot [Y \cdot V \cdot m \cdot (X^2 + n^2) + X \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 - V \cdot m \cdot n)]} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 1.00000$
 $N_5 = 3.00000$
 $R = 2.25664$

$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_1 \cdot N_3^2 - N_2 \cdot N_3^2 - N_1 \cdot N_3) + N_1 \cdot N_4 + N_1 \cdot N_3^2 \cdot N_4} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.65368$ $N_3 := 1.42595$

$N_4 := .49375$ $N_5 := .99764$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AD := AB - \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{AB - EG} \quad R = 1.881938$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 - AD \cdot N_3^2} = 0$$

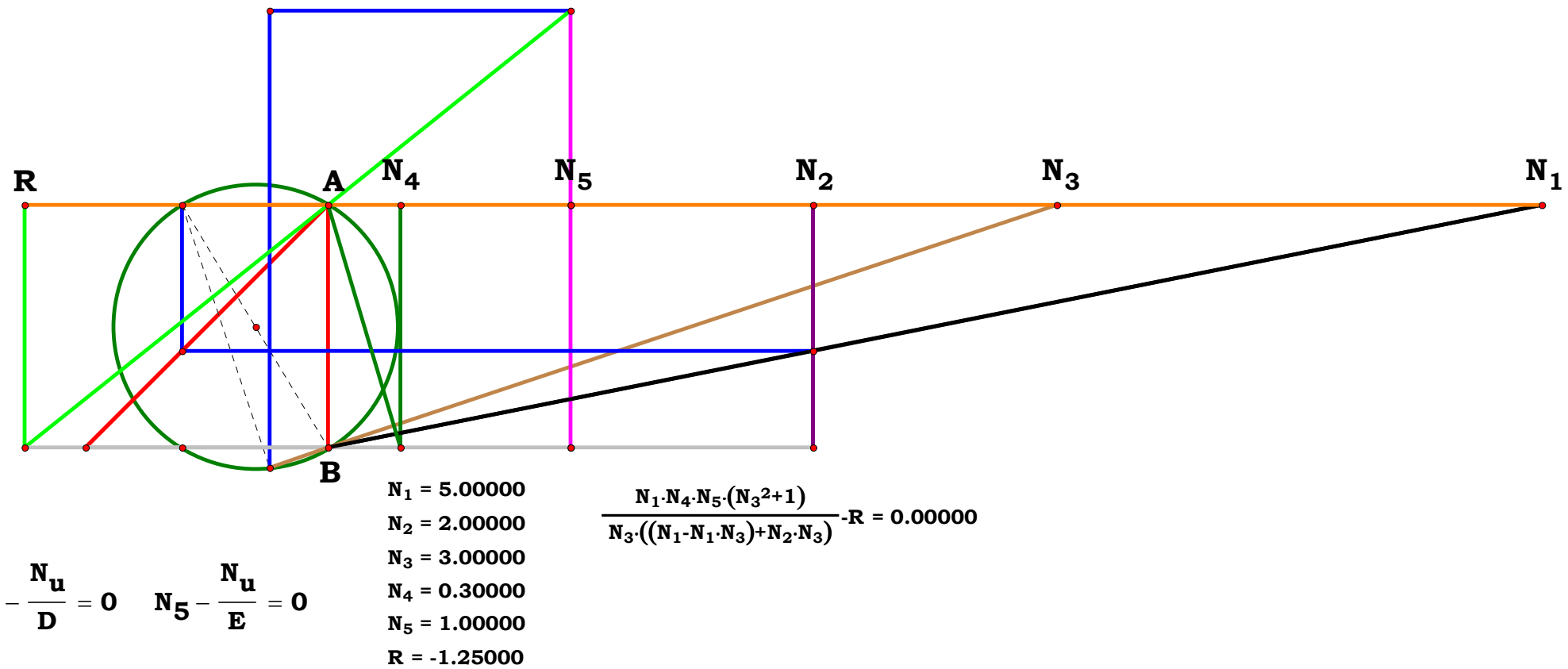
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

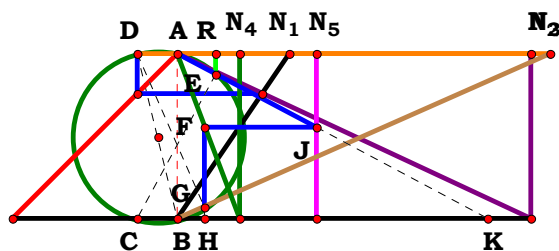
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)}{X \cdot o \cdot p \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$





$N_1 = 0.67541$
 $N_2 = 2.13797$
 $N_3 = 2.25892$
 $N_4 = 0.37752$
 $N_5 = 0.84266$
 $R = 0.22786$

Unit. $AB := 1$ Given. $N_1 := .67541$ $N_2 := 2.13797$ $N_3 := 2.25892$
 $N_4 := .37752$ $N_5 := .84266$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

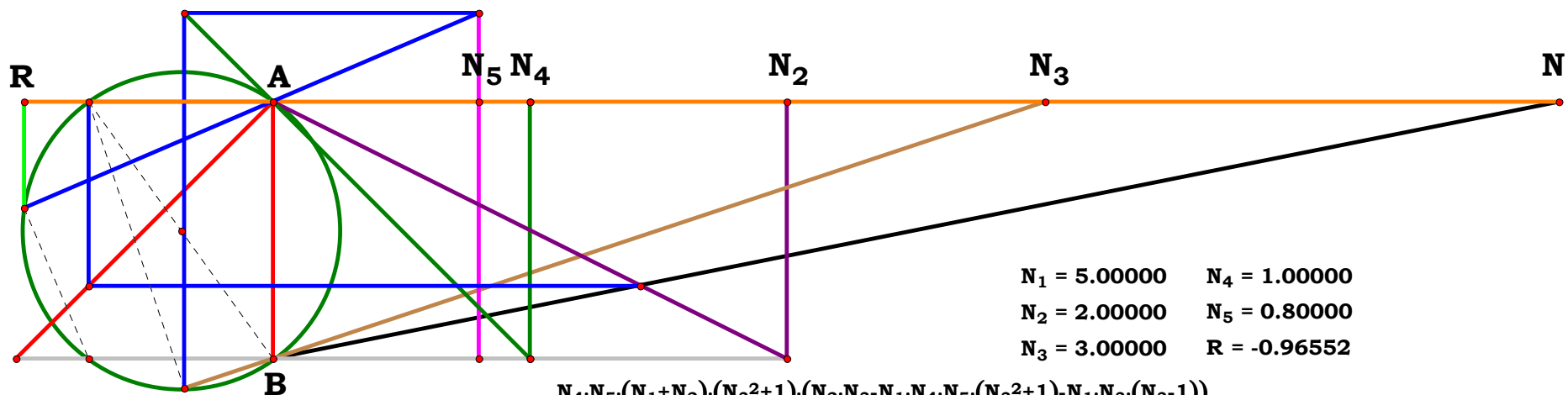
$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$GN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BG := BN_3 - GN_3$$

$$BH := \frac{N_3 \cdot BG}{BN_3} \quad FH := \frac{N_4 - BH}{N_4} \quad BK := \frac{N_5}{AB - FH}$$

$$AK := \sqrt{AB^2 + BK^2} \quad EK := \frac{BK \cdot (BK + AD)}{AK}$$

$$AE := AK - EK \quad R := \frac{BK \cdot AE}{AK} \quad R = 0.227861$$



$N_1 = 5.00000$ $N_4 = 1.00000$
 $N_2 = 2.00000$ $N_5 = 0.80000$
 $N_3 = 3.00000$ $R = -0.96552$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_2 \cdot N_3 - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_1 \cdot N_3 \cdot (N_3 - 1))}{(N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1))^2 + N_3^2 \cdot (N_1 \cdot N_3 - (N_1 + N_2))^2} \cdot R = 0.00000$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_3 - AD \cdot N_3^2 - AD \cdot N_4 \cdot N_5 - AD \cdot N_3^2 \cdot N_4 \cdot N_5)}{AD^2 \cdot N_3^4 - 2 \cdot AD \cdot N_3^3 + N_3^4 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_3^2 \cdot N_4^2 \cdot N_5^2 + N_3^2 + N_4^2 \cdot N_5^2} = 0$$

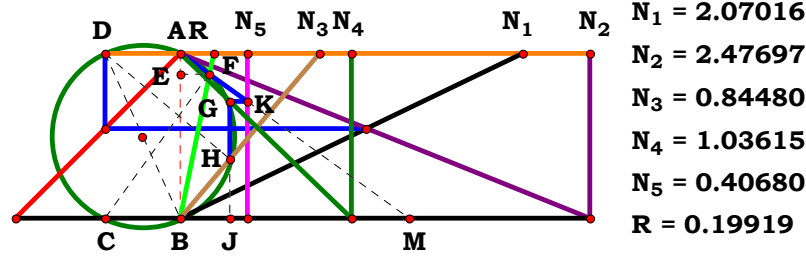
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot [N_2 \cdot N_3 - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_1 \cdot N_3 \cdot (N_3 - 1)]}{N_4^2 \cdot N_5^2 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1)^2 + N_3^2 \cdot (N_1 \cdot N_3 - N_2 - N_1)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot [E \cdot D \cdot [C \cdot (A + B) - B \cdot N_u] - [B \cdot N_u \cdot (C^2 + N_u^2)]]}{E^2 \cdot D^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2 + N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2) \cdot [X \cdot o \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n) - V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)]}{Y^2 \cdot Z^2 \cdot (X^2 + n^2)^2 \cdot (V \cdot m + W \cdot l)^2 + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)^2} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.07016$ $N_2 := 2.47697$ $N_3 := .84480$

$N_4 := 1.03615$ $N_5 := .40680$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad HJ := \frac{N_4 - BJ}{N_4}$$

$$BM := \frac{N_5}{AB - HJ} \quad AM := \sqrt{AB^2 + BM^2}$$

$$FM := \frac{BM \cdot (BM + AD)}{AM} \quad AF := AM - FM \quad AE := \frac{AF}{AM}$$

$$EF := \frac{BM \cdot AF}{AM} \quad R := \frac{EF}{AB - AE} \quad R = 0.199193$$

Definitions.

$$R - \frac{AD \cdot N_3^2 - N_3 + AD \cdot N_4 \cdot N_5 + AD \cdot N_3^2 \cdot N_4 \cdot N_5}{AD^2 \cdot N_3^2 - AD \cdot N_3 - N_4 \cdot N_5 \cdot N_3^2 - N_4 \cdot N_5} = 0$$

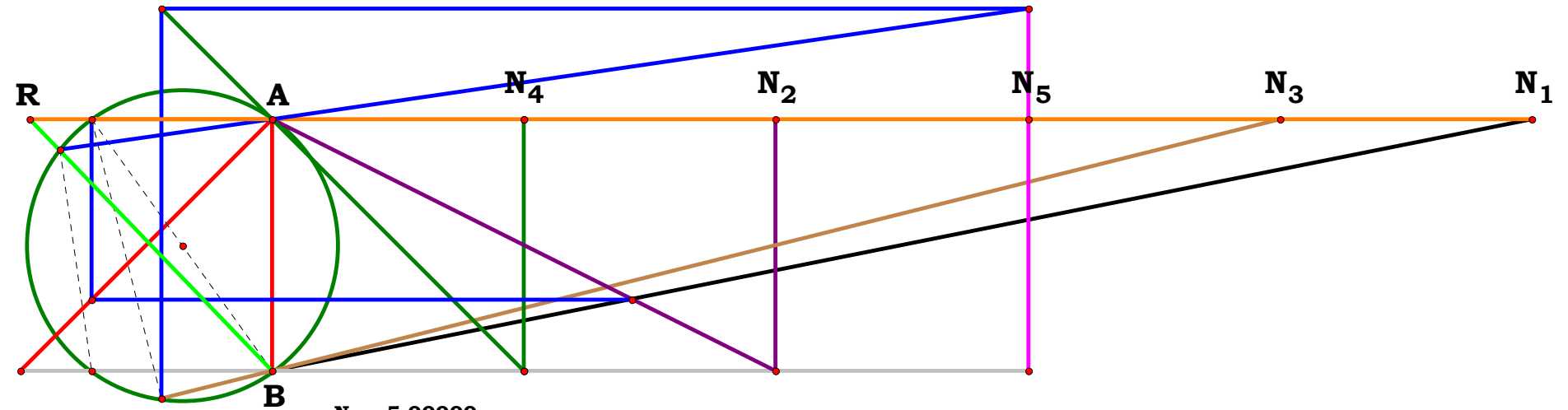
$$R - \frac{(N_1 + N_2) \cdot [N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)]}{N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A + B) \cdot [E \cdot D \cdot [C \cdot (A + B) - B \cdot N_u] - [B \cdot N_u \cdot (C^2 + N_u^2)]]}{E \cdot B \cdot D \cdot [C \cdot (A + B) - B \cdot N_u] + N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2} = 0$$

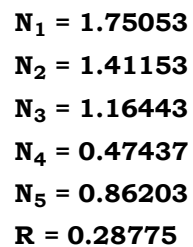
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{(V \cdot m + W \cdot l) \cdot [X \cdot o \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n) - V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)]}{Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l)^2 + V \cdot X \cdot m \cdot o \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 1.00000$
 $N_5 = 3.00000$
 $R = -0.95980$

$$\frac{(N_1 + N_2) \cdot (N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3) - N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))}{N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3)} - R = 0.00000$$


$$\mathbf{N}_4 := .47437 \quad \mathbf{N}_5 := .86203$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

$$\mathbf{V} := 17 \quad \mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{l} := \frac{\mathbf{V}}{\mathbf{N}_1} \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_2} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_3} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_4} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_5}$$

$$\mathbf{AD} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2} \quad \mathbf{FN}_3 := \frac{\mathbf{N}_3 \cdot (\mathbf{N}_3 + \mathbf{AD})}{\mathbf{BN}_3}$$

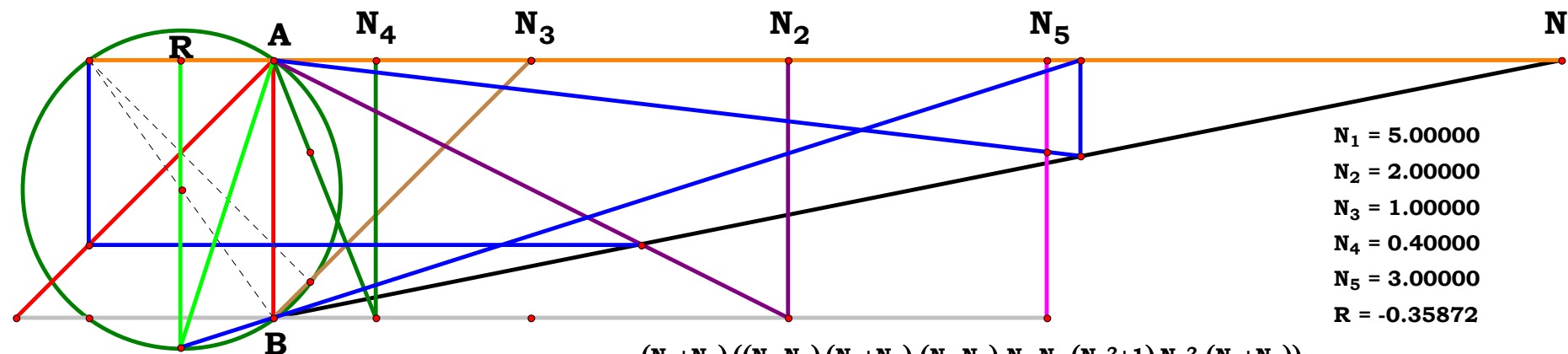
$$\mathbf{BF} := \mathbf{BN}_3 - \mathbf{FN}_3 \quad \mathbf{BG} := \frac{\mathbf{N}_3 \cdot \mathbf{BF}}{\mathbf{BN}_3} \quad \mathbf{EG} := \frac{\mathbf{N}_4 - \mathbf{BG}}{\mathbf{N}_4}$$

$$\mathbf{BO} := \frac{\mathbf{N}_5}{\mathbf{AB} - \mathbf{EG}} \quad \mathbf{AK} := \frac{\mathbf{BO} \cdot \mathbf{N}_1}{\mathbf{BO} + \mathbf{N}_1}$$

$$\mathbf{BK} := \sqrt{\mathbf{AB}^2 + \mathbf{AK}^2} \quad \mathbf{HK} := \frac{\mathbf{AK} \cdot (\mathbf{AK} + \mathbf{AD})}{\mathbf{BK}}$$

$$\mathbf{BH} := \mathbf{BK} - \mathbf{HK} \quad \mathbf{BJ} := \frac{\mathbf{AK} \cdot \mathbf{BH}}{\mathbf{BK}}$$

$$\mathbf{HJ} := \frac{\mathbf{BJ}}{\mathbf{AK}} \quad \mathbf{R} := \frac{\mathbf{BJ}}{\mathbf{AB} - \mathbf{HJ}} \quad \mathbf{R} = 0.287754$$



N₁ = 5.00000
N₂ = 2.00000
N₃ = 1.00000
N₄ = 0.40000
N₅ = 3.00000
R = -0.35872

$$\frac{(N_1+N_2) \cdot ((N_1 \cdot N_3) \cdot (N_1+N_2) - (N_1 \cdot N_3) - N_4 \cdot N_5 \cdot (N_3^2+1) \cdot N_1^2 - (N_1+N_2))}{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2+1) \cdot (N_1+N_2) \cdot ((N_1+N_2)+1) + N_1^2 \cdot N_3 \cdot ((N_1+N_2) - (N_1 \cdot N_3))} \cdot R = 0.00000$$

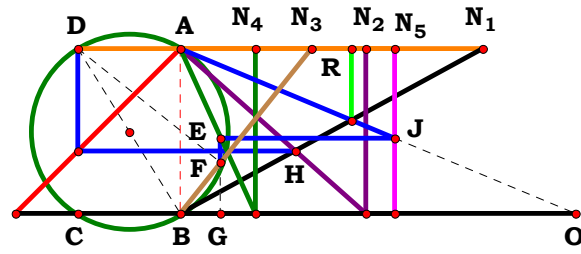
$$R - \frac{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 \cdot N_4 \cdot N_5}{AD \cdot (N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5) + N_1 \cdot N_3^2 \cdot N_4 \cdot N_5 + N_1 \cdot N_4 \cdot N_5} = 0$$

$$\mathbf{R} - \frac{(\mathbf{N}_1 + \mathbf{N}_2) \cdot [\mathbf{N}_1 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3) - \mathbf{N}_4 \cdot \mathbf{N}_5 \cdot (\mathbf{N}_3^2 + 1) \cdot (\mathbf{N}_1^2 - \mathbf{N}_1 - \mathbf{N}_2)]}{\mathbf{N}_1 \cdot \mathbf{N}_4 \cdot \mathbf{N}_5 \cdot (\mathbf{N}_3^2 + 1) \cdot (\mathbf{N}_1 + \mathbf{N}_2) \cdot (\mathbf{N}_1 + \mathbf{N}_2 + 1) + \mathbf{N}_1^2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$\mathbf{R} - \frac{(\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \right] + \left(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right) \cdot \left[\mathbf{A}^2 + \mathbf{B} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \right] \right]}{\mathbf{E} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \right] + \left(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{A} \cdot \mathbf{B} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \right]} = 0$$

$$\mathbf{R} - \frac{(\mathbf{V} \cdot \mathbf{m} + \mathbf{W} \cdot \mathbf{l}) \cdot [\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{X}^2 + \mathbf{n}^2) \cdot (\mathbf{m} \cdot \mathbf{V} \cdot \mathbf{l} - \mathbf{m} \cdot \mathbf{V}^2 + \mathbf{W} \cdot \mathbf{l}^2) + \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{o} \cdot \mathbf{p} \cdot (\mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n} - \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} + \mathbf{W} \cdot \mathbf{l} \cdot \mathbf{n})]}{\mathbf{V} \cdot [\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{X}^2 + \mathbf{n}^2) \cdot (\mathbf{V} \cdot \mathbf{m} + \mathbf{W} \cdot \mathbf{l} + \mathbf{l} \cdot \mathbf{m}) \cdot (\mathbf{V} \cdot \mathbf{m} + \mathbf{W} \cdot \mathbf{l}) + \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} \cdot \mathbf{o} \cdot \mathbf{p} \cdot (\mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n} - \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} + \mathbf{W} \cdot \mathbf{l} \cdot \mathbf{n})]} = 0$$



$N_1 = 1.82802$
 $N_2 = 1.12096$
 $N_3 = 0.79637$
 $N_4 = 0.45500$
 $N_5 = 1.29790$
 $R = 1.03641$

Unit. $AB := 1$ Given. $N_1 := 1.82802$ $N_2 := 1.12096$ $N_3 := .79637$

$N_4 := .45500$ $N_5 := 1.29790$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4} \quad BK := \frac{N_5}{AB - EG}$$

$$R := \frac{BK \cdot N_1}{BK + N_1} \quad R = 1.036407$$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

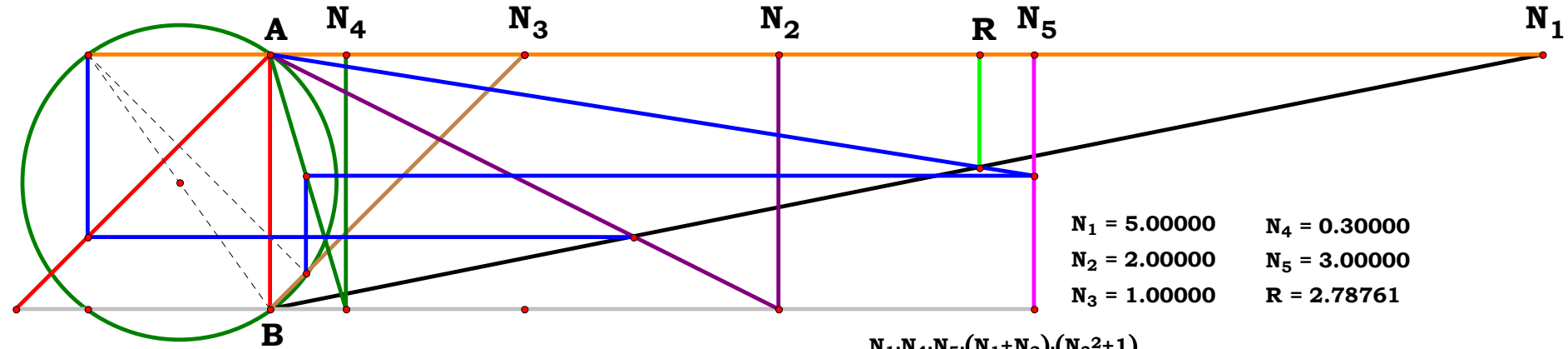
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)}{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) + N_1 \cdot N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot D \cdot [C \cdot (A + B) - B \cdot N_u] + A \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

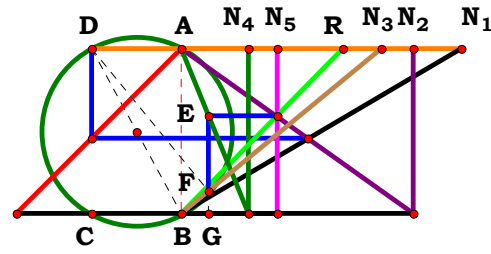
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2)}{Y \cdot Z \cdot 1 \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot 1) + V \cdot X \cdot o \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot 1 \cdot n)} = 0$$



$N_1 = 5.00000$ $N_4 = 0.30000$
 $N_2 = 2.00000$ $N_5 = 3.00000$
 $N_3 = 1.00000$ $R = 2.78761$

$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.69242$
 $N_2 = 1.40185$
 $N_3 = 1.21286$
 $N_4 = 0.40657$
 $N_5 = 0.58115$
 $R = 0.97899$

Unit. $AB := 1$ Given. $N_1 := 1.69242$ $N_2 := 1.40185$ $N_3 := 1.21286$

$N_4 := .40657$ $N_5 := .58115$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 0.979006$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 - N_3 + N_3^2 \cdot N_4 + AD \cdot N_3^2} = 0$$

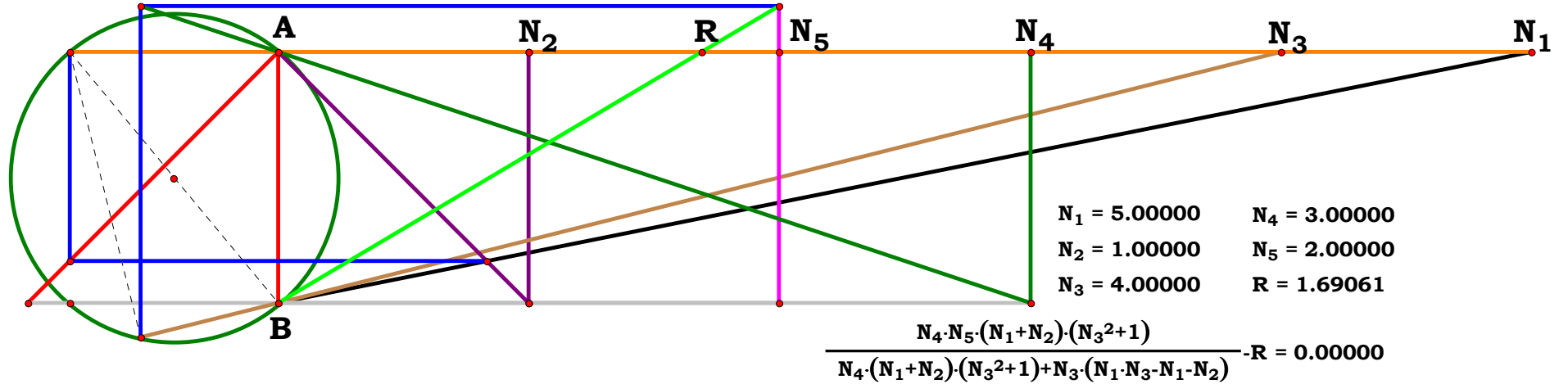
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_3^2 + 1) \cdot (N_1 + N_2) \cdot N_4 + N_3 \cdot (N_1 \cdot N_3 - N_2 - N_1)} = 0$$

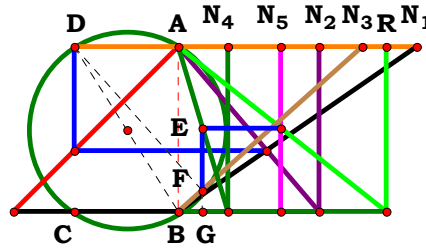
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - B \cdot N_u]]} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_3^2 + 1) \cdot (N_1 + N_2) \cdot N_4 + N_3 \cdot (N_1 \cdot N_3 - N_2 - N_1)} = 0$$





$N_1 = 1.44059$
 $N_2 = 0.84976$
 $N_3 = 1.11600$
 $N_4 = 0.30003$
 $N_5 = 0.61989$
 $R = 1.25552$

Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := .84976$ $N_3 := 1.11600$

$N_4 := .30003$ $N_5 := .61989$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{AB - EG} \quad R = 1.255517$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 - AD \cdot N_3^2} = 0$$

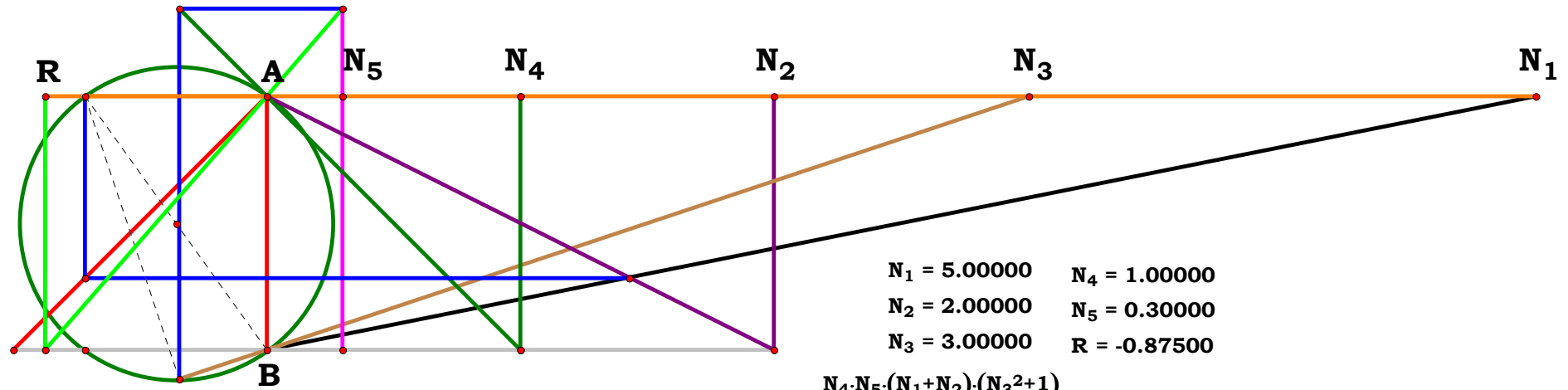
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

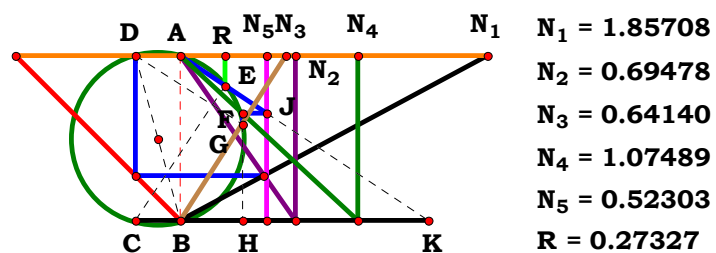
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)}{o \cdot p \cdot (V \cdot X \cdot m \cdot n - V \cdot X^2 \cdot m + W \cdot X \cdot l \cdot n)} = 0$$



$N_1 = 5.00000$ $N_4 = 1.00000$
 $N_2 = 2.00000$ $N_5 = 0.30000$
 $N_3 = 3.00000$ $R = -0.87500$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.85708$ $N_2 := .69478$ $N_3 := .64140$
 $N_4 := 1.07489$ $N_5 := .52303$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad GN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BG := BN_3 - GN_3 \quad BH := \frac{N_3 \cdot BG}{BN_3}$$

$$FH := \frac{N_4 - BH}{N_4} \quad BK := \frac{N_5}{AB - FH}$$

$$AK := \sqrt{AB^2 + BK^2} \quad EK := \frac{BK \cdot (BK + AD)}{AK}$$

$$AE := AK - EK \quad R := \frac{BK \cdot AE}{AK} \quad R = 0.273271$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_3 - AD \cdot N_3^2 - AD \cdot N_4 \cdot N_5 - AD \cdot N_3^2 \cdot N_4 \cdot N_5)}{AD^2 \cdot N_3^4 - 2 \cdot AD \cdot N_3^3 + N_3^4 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_3^2 \cdot N_4^2 \cdot N_5^2 + N_3^2 + N_4^2 \cdot N_5^2} = 0$$

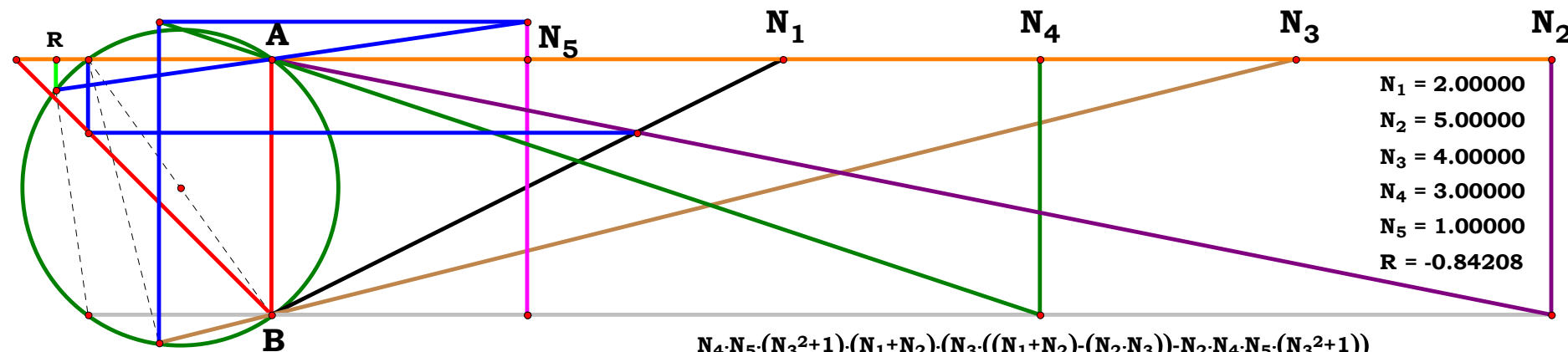
$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot [N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3) - N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)]}{N_4^2 \cdot N_5^2 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1)^2 + N_3^2 \cdot (N_1 + N_2 - N_2 \cdot N_3)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

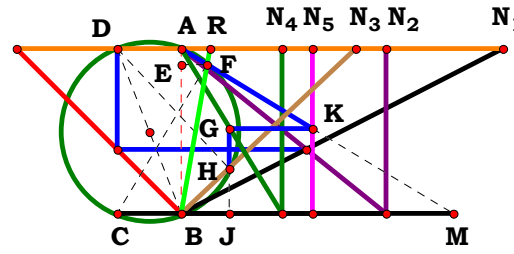
$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot [E \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] - [A \cdot N_u \cdot (C^2 + N_u^2)]]}{E^2 \cdot D^2 \cdot [C \cdot (A + B) - A \cdot N_u]^2 + N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2) \cdot [X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot 1 + W \cdot 1 \cdot n) - W \cdot Y \cdot Z \cdot 1 \cdot (X^2 + n^2)]}{Y^2 \cdot Z^2 \cdot (X^2 + n^2)^2 \cdot (V \cdot m + W \cdot 1)^2 + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot m \cdot n - W \cdot X \cdot 1 + W \cdot 1 \cdot n)^2} = 0$$



$$\frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) \cdot (N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3)) - N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))}{(N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1))^2 + N_3^2 \cdot ((N_1 + N_2) - (N_2 \cdot N_3))^2} - R = 0.00000$$



$N_1 = 1.94425$
 $N_2 = 1.23719$
 $N_3 = 1.05789$
 $N_4 = 0.60998$
 $N_5 = 0.79423$
 $R = 0.17611$

Unit. $AB := 1$ Given. $N_1 := 1.94425$ $N_2 := 1.23719$ $N_3 := 1.05789$
 $N_4 := .60998$ $N_5 := .79423$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3}$$

$$HJ := \frac{N_4 - BJ}{N_4} \quad BM := \frac{N_5}{AB - HJ}$$

$$AM := \sqrt{AB^2 + BM^2} \quad FM := \frac{BM \cdot (BM + AD)}{AM}$$

$$AF := AM - FM \quad AE := \frac{AF}{AM} \quad EF := \frac{BM \cdot AF}{AM}$$

$$R := \frac{EF}{AB - AE} \quad R = 0.17611$$

Definitions.

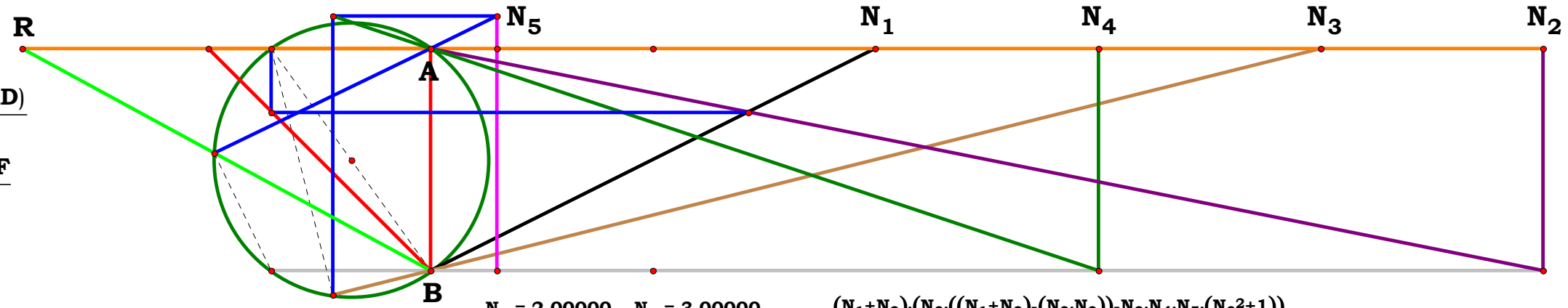
$$R - \frac{AD \cdot N_3^2 - N_3 + AD \cdot N_4 \cdot N_5 + AD \cdot N_3^2 \cdot N_4 \cdot N_5}{AD^2 \cdot N_3^2 - AD \cdot N_3 - N_4 \cdot N_5 \cdot N_3^2 - N_4 \cdot N_5} = 0$$

$$R - \frac{(N_1 + N_2) \cdot [N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3) - N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)]}{N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

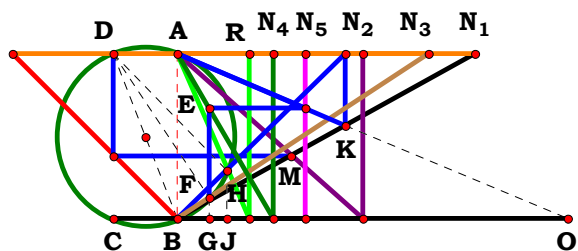
$$R - \frac{(A + B) \cdot [E \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] - [A \cdot N_u \cdot (C^2 + N_u^2)]]}{E \cdot A \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] + N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2} = 0 \quad N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{(V \cdot m + W \cdot l) \cdot [X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n) - W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)]}{Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l)^2 + W \cdot X \cdot l \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 2.00000$ $N_4 = 3.00000$
 $N_2 = 5.00000$ $N_5 = 0.30000$
 $N_3 = 4.00000$ $R = -1.83684$

$$\frac{(N_1 + N_2) \cdot (N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3)) - N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))}{N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3))} - R = 0.00000$$



$N_1 = 1.79896$
 $N_2 = 1.12096$
 $N_3 = 1.52280$
 $N_4 = 0.58092$
 $N_5 = 0.77486$
 $R = 0.43271$

Unit. $AB := 1$ Given. $N_1 := 1.79896$ $N_2 := 1.12096$ $N_3 := 1.52280$
 $N_4 := .58092$ $N_5 := .77486$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BO := \frac{N_5}{AB - EG} \quad AK := \frac{BO \cdot N_1}{BO + N_1} \quad BK := \sqrt{AB^2 + AK^2}$$

$$HK := \frac{AK \cdot (AK + AD)}{BK} \quad BH := BK - HK \quad BJ := \frac{AK \cdot BH}{BK}$$

$$HJ := \frac{BJ}{AK} \quad R := \frac{BJ}{AB - HJ} \quad R = 0.432714$$

Definitions.

$$R - \frac{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 \cdot N_4 \cdot N_5}{AD \cdot N_3^2 \cdot N_4 \cdot N_5 - AD^2 \cdot N_1 \cdot N_3^2 + AD \cdot N_1 \cdot N_3 + AD \cdot N_4 \cdot N_5 + N_1 \cdot N_3^2 \cdot N_4 \cdot N_5 + N_1 \cdot N_4 \cdot N_5} = 0$$

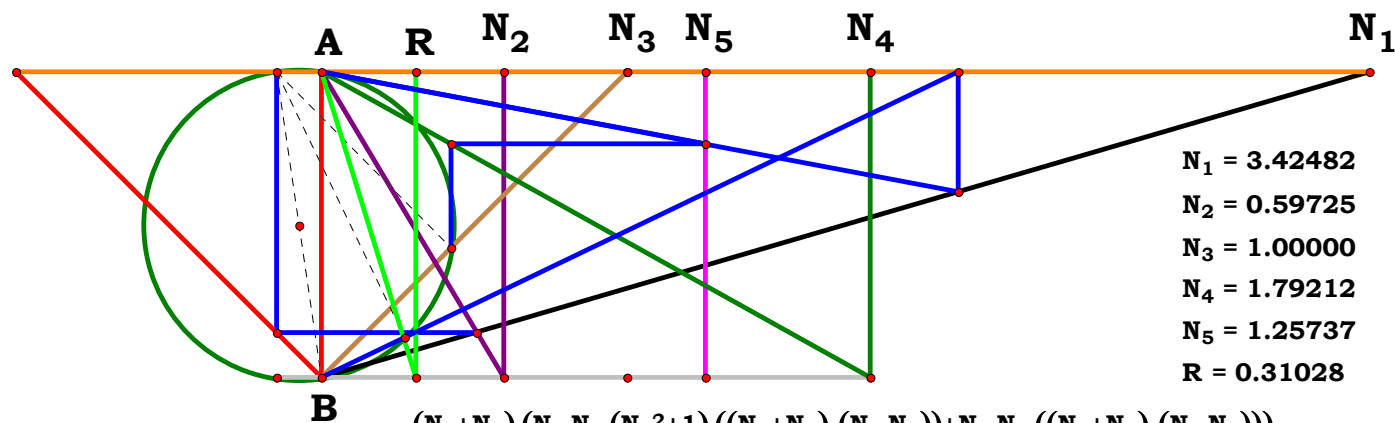
$$R - \frac{(N_1 + N_2) \cdot [N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2 - N_1 \cdot N_2) \cdot N_5 + N_1 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)]}{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1^2 + N_1 \cdot N_2 + N_2) + N_1 \cdot N_2 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A + B) \cdot [E \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] + A \cdot (C^2 + N_u^2) \cdot (A + B - N_u)]}{E \cdot A \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] + (A + B) \cdot [A^2 + N_u \cdot (A + B)] \cdot (C^2 + N_u^2)} = 0$$

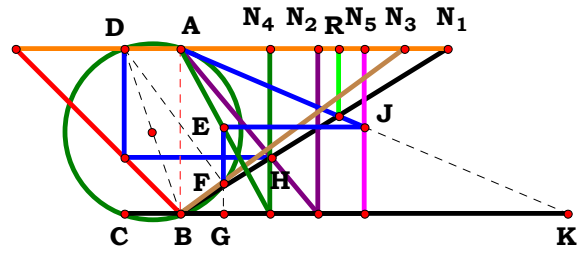
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{(V \cdot m + W \cdot l) \cdot [Y \cdot Z \cdot l \cdot (X^2 + n^2) \cdot (V \cdot m - V \cdot W + W \cdot l) + V \cdot X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)]}{Y \cdot Z \cdot (m \cdot V^2 + W \cdot V \cdot l + W \cdot l^2) \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2) + V \cdot W \cdot X \cdot l \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 3.42482$
 $N_2 = 0.59725$
 $N_3 = 1.00000$
 $N_4 = 1.79212$
 $N_5 = 1.25737$
 $R = 0.31028$

$$\frac{(N_1 + N_2) \cdot (N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_1 + N_2) - (N_1 \cdot N_2)) + N_1 \cdot N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3)))}{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1) \cdot (N_1^2 + (N_1 \cdot N_2) + N_2) + N_1 \cdot N_2 \cdot N_3 \cdot ((N_1 + N_2) - (N_2 \cdot N_3))} \cdot R = 0.00000$$



$N_1 = 1.61493$
 $N_2 = 0.83038$
 $N_3 = 1.35815$
 $N_4 = 0.54218$
 $N_5 = 1.11387$
 $R = 0.95676$

Unit. $AB := 1$ Given. $N_1 := 1.61493$ $N_2 := .83038$ $N_3 := 1.35815$

$N_4 := .54218$ $N_5 := 1.11387$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BK := \frac{N_5}{AB - EG} \quad R := \frac{BK \cdot N_1}{BK + N_1} \quad R = 0.956762$$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

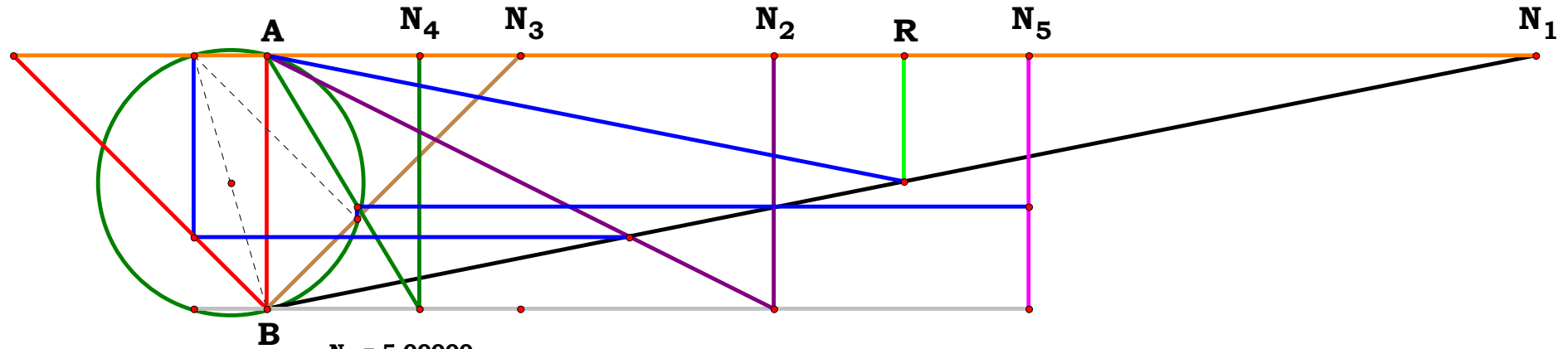
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) + N_1 \cdot N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] + A \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

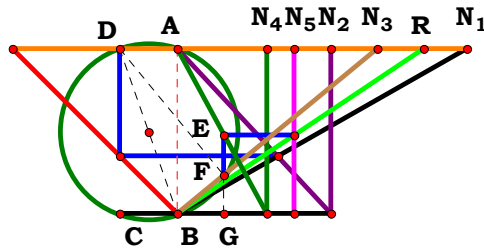
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)}{Y \cdot Z \cdot l \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + V \cdot X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.60000$
 $N_5 = 3.00000$
 $R = 2.50996$

$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) + N_1 \cdot N_3 \cdot ((N_1 + N_2) - N_2 \cdot N_3)} \cdot R = 0.00000$$



$N_1 = 1.75053$
 $N_2 = 0.92724$
 $N_3 = 1.21286$
 $N_4 = 0.54218$
 $N_5 = 0.70706$
 $R = 1.48884$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.21228$

$N_4 := .54218$ $N_5 := .70706$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3}$$

$$EG := \frac{N_4 - BG}{N_4} \quad R := \frac{N_5}{EG} \quad R = 1.489541$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 - N_3 + N_3^2 \cdot N_4 + AD \cdot N_3^2} = 0$$

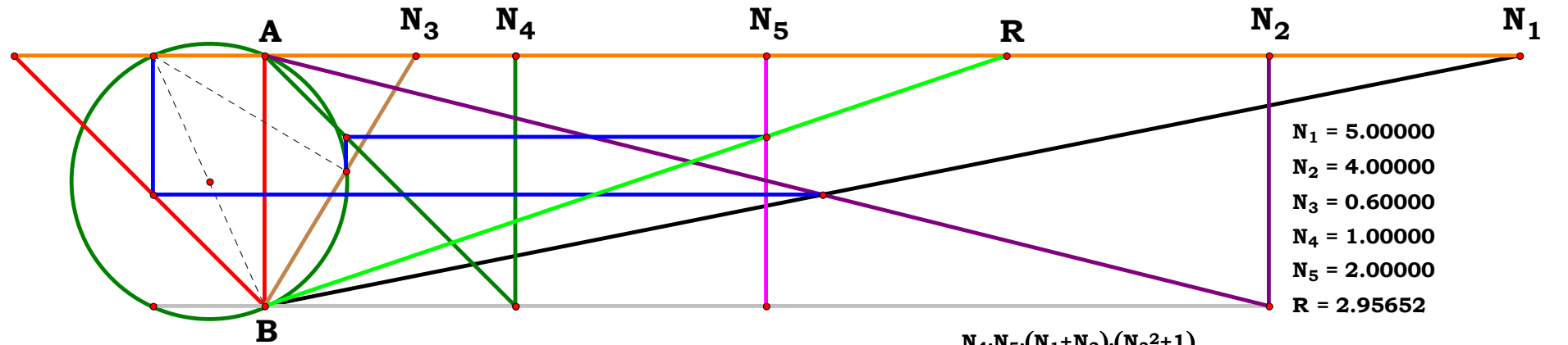
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_3^2 + 1) \cdot (N_1 + N_2) \cdot N_4 - N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]} = 0$$

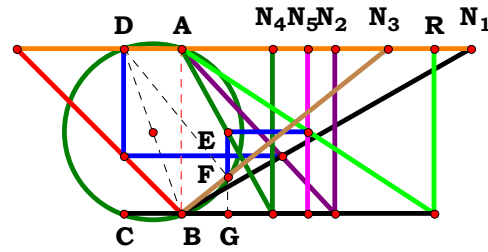
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2)}{p \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot 1) + X \cdot o \cdot (W \cdot X \cdot 1 - V \cdot m \cdot n - W \cdot 1 \cdot n)]} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 0.60000$
 $N_4 = 1.00000$
 $N_5 = 2.00000$
 $R = 2.95652$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_4 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) - N_3 \cdot ((N_1 + N_2) - N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.75053$
 $N_2 = 0.92724$
 $N_3 = 1.25160$
 $N_4 = 0.55186$
 $N_5 = 0.76518$
 $R = 1.52823$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.25160$

$N_4 := .55186$ $N_5 := .76518$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{AB - EG} \quad R = 1.52823$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 - AD \cdot N_3^2} = 0$$

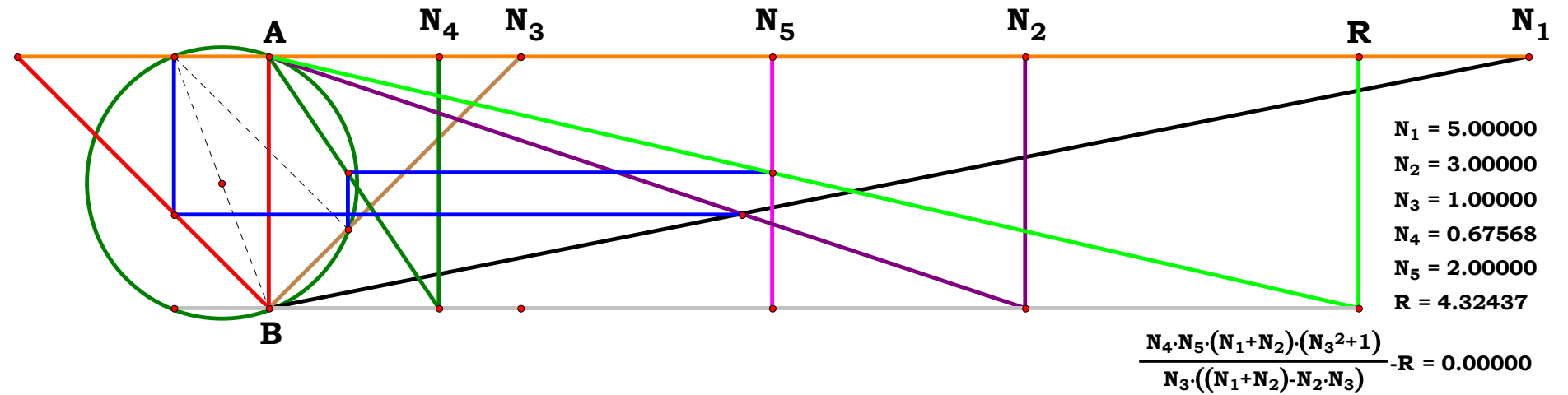
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]} = 0$$

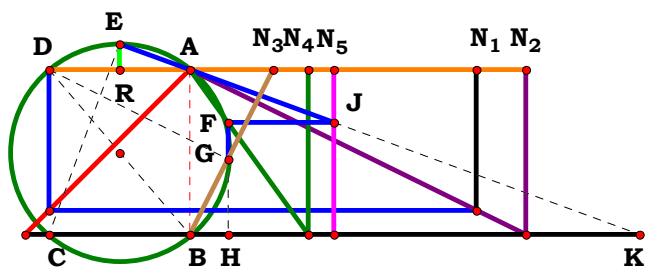
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot 1) \cdot (X^2 + n^2)}{o \cdot p \cdot (V \cdot X \cdot m \cdot n - W \cdot X^2 \cdot 1 + W \cdot X \cdot 1 \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.67568$
 $N_5 = 2.00000$
 $R = 4.32437$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot ((N_1 + N_2) - N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.73116$
 $N_2 = 2.03142$
 $N_3 = 0.50580$
 $N_4 = 0.71652$
 $N_5 = 0.87172$
 $R = -0.42774$

Unit. $AB := 1$ Given. $N_1 := 1.73116$ $N_2 := 2.03142$ $N_3 := .50580$

$N_4 := .71652$ $N_5 := .87172$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

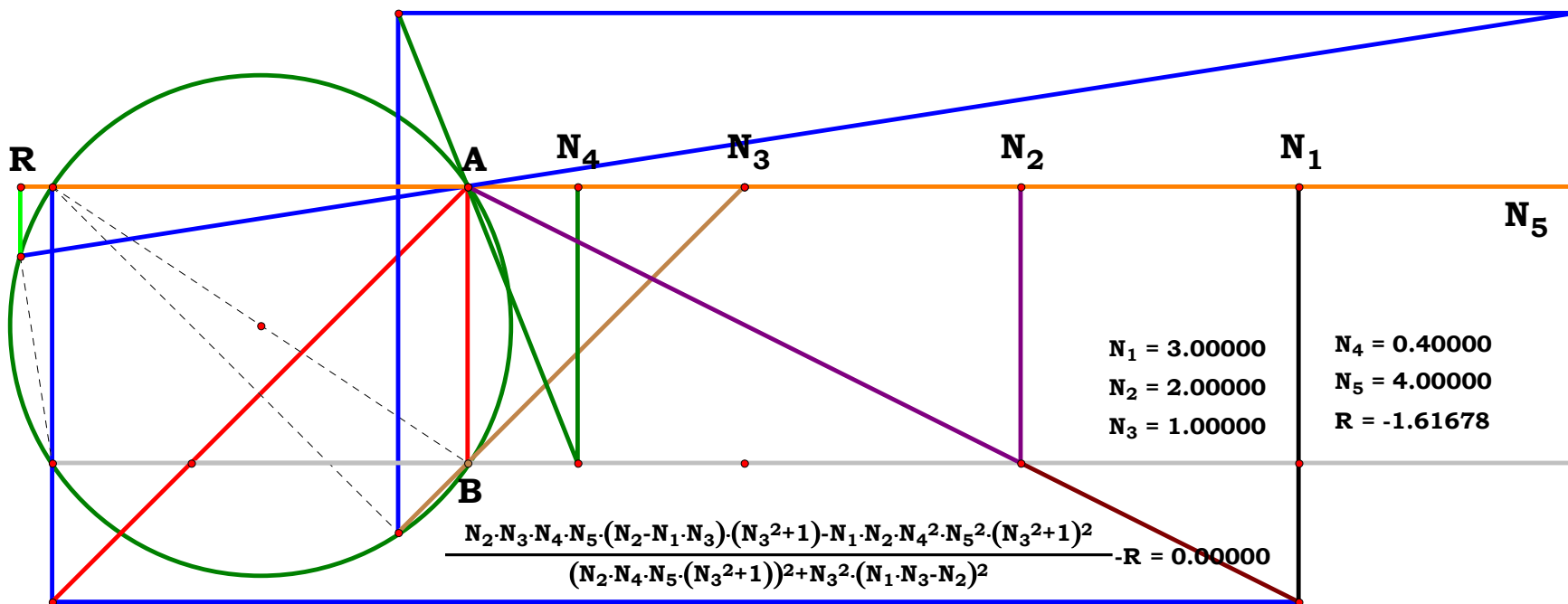
$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad GN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BG := BN_3 - GN_3 \quad BH := \frac{N_3 \cdot BG}{BN_3} \quad FH := \frac{N_4 - BH}{N_4}$$

$$BK := \frac{N_5}{AB - FH} \quad AK := \sqrt{AB^2 + BK^2} \quad EK := \frac{BK \cdot (BK + AD)}{AK}$$

$$AE := AK - EK \quad R := \frac{BK \cdot AE}{AK} \quad R = -0.427738$$

Definitions.



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.40000$
 $N_5 = 4.00000$
 $R = -1.61678$

$$\frac{N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_3^2 + 1) - N_1 \cdot N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2}{(N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))^2 + N_3^2 \cdot (N_1 \cdot N_3 - N_2)^2} \cdot R = 0.00000$$

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_3 - AD \cdot N_3^2 - AD \cdot N_4 \cdot N_5 - AD \cdot N_3^2 \cdot N_4 \cdot N_5)}{AD^2 \cdot N_3^4 - 2 \cdot AD \cdot N_3^3 + N_3^4 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_3^2 \cdot N_4^2 \cdot N_5^2 + N_3^2 + N_4^2 \cdot N_5^2} = 0$$

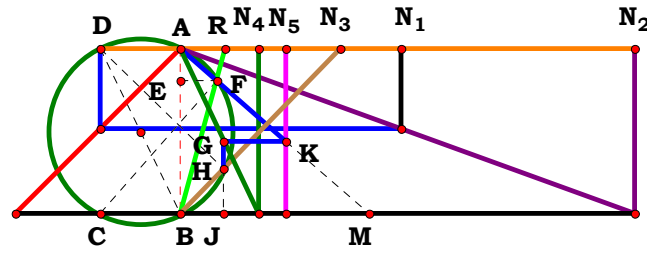
$$R - \frac{N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_3^2 + 1) - N_1 \cdot N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2}{N_2^2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 + N_3^2 \cdot (N_1 \cdot N_3 - N_2)^2} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot [E \cdot D \cdot (A \cdot C - B \cdot N_u) - [B \cdot N_u \cdot (C^2 + N_u^2)]]}{E^2 \cdot D^2 \cdot (A \cdot C - B \cdot N_u)^2 + A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2) \cdot [X \cdot o \cdot p \cdot (W \cdot l \cdot n - V \cdot X \cdot m) - V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)]}{Y^2 \cdot W^2 \cdot Z^2 \cdot l^2 \cdot (X^2 + n^2)^2 + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - W \cdot l \cdot n)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$



$N_1 = 1.33405$
 $N_2 = 2.74817$
 $N_3 = 0.97071$
 $N_4 = 0.47437$
 $N_5 = 0.63926$
 $R = 0.27129$

Unit. $AB := 1$ Given. $N_1 := 1.33405$ $N_2 := 2.74817$ $N_3 := .97071$
 $N_4 := .47437$ $N_5 := .63926$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\begin{aligned}
 AD &:= \frac{N_1}{N_2} & BN_3 &:= \sqrt{AB^2 + N_3^2} & HN_3 &:= \frac{N_3 \cdot (N_3 + AD)}{BN_3} & BH &:= BN_3 - HN_3 \\
 BJ &:= \frac{N_3 \cdot BH}{BN_3} & HJ &:= \frac{N_4 - BJ}{N_4} & BM &:= \frac{N_5}{AB - HJ} \\
 AM &:= \sqrt{AB^2 + BM^2} \\
 FM &:= \frac{BM \cdot (BM + AD)}{AM} \\
 AF &:= AM - FM \\
 AE &:= \frac{AF}{AM} & EF &:= \frac{BM \cdot AF}{AM} \\
 R &:= \frac{EF}{AB - AE} & R &= 0.271291
 \end{aligned}$$

Definitions.

$$R - \frac{AD \cdot N_3^2 - N_3 + AD \cdot N_4 \cdot N_5 + AD \cdot N_3^2 \cdot N_4 \cdot N_5}{AD^2 \cdot N_3^2 - AD \cdot N_3 - N_4 \cdot N_5 \cdot N_3^2 - N_4 \cdot N_5} = 0$$

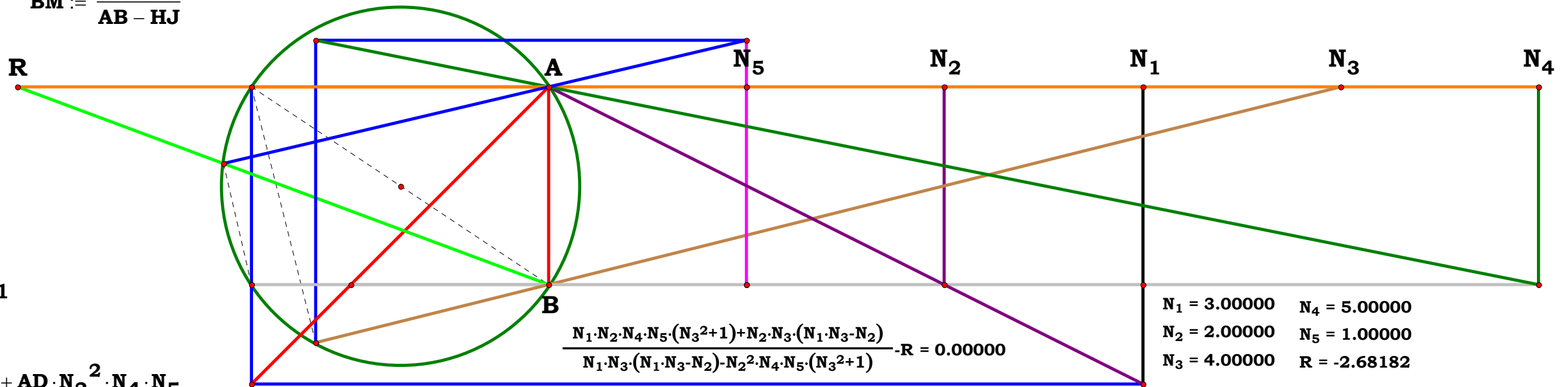
$$R - \frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)}{N_1 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2) - N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

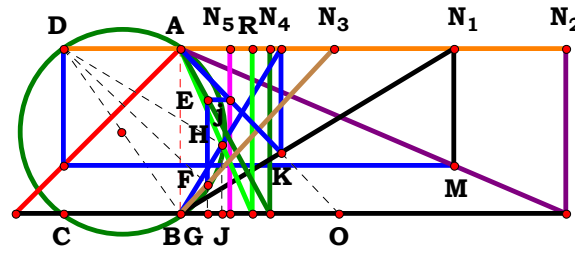
$$R - \frac{A \cdot [E \cdot D \cdot (A \cdot C - B \cdot N_u) - [B \cdot N_u \cdot (C^2 + N_u^2)]]}{E \cdot B \cdot D \cdot (A \cdot C - B \cdot N_u) + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = 0 \quad N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot 1 \cdot [Y \cdot V \cdot Z \cdot m \cdot (X^2 + n^2) + X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot 1 \cdot n)]}{[V \cdot X \cdot m \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot 1 \cdot n) - Y \cdot W^2 \cdot Z \cdot 1^2 \cdot (X^2 + n^2)]} = 0$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad 1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$$\frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2)}{N_1 \cdot N_3 \cdot (N_1 \cdot N_3 - N_2) - N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)} - R = 0.00000$$



$N_1 = 1.65368$
 $N_2 = 2.33168$
 $N_3 = 0.93197$
 $N_4 = 0.54218$
 $N_5 = 0.30026$
 $R = 0.43139$

Unit. $AB := 1$ Given. $N_1 := 1.65368$ $N_2 := 2.33168$ $N_3 := .93197$

$N_4 := .54218$ $N_5 := .30026$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BO := \frac{N_5}{AB - EG} \quad AK := \frac{BO \cdot N_1}{BO + N_1} \quad BK := \sqrt{AB^2 + AK^2}$$

$$HK := \frac{AK \cdot (AK + AD)}{BK} \quad BH := BK - HK \quad BJ := \frac{AK \cdot BH}{BK}$$

$$HJ := \frac{BJ}{AK} \quad R := \frac{BJ}{AB - HJ} \quad R = 0.431384$$

Definitions.

$$R - \frac{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 \cdot N_4 \cdot N_5}{N_4 \cdot N_5 \cdot AD \cdot N_3^2 - N_1 \cdot AD^2 \cdot N_3^2 + N_1 \cdot AD \cdot N_3 + N_4 \cdot N_5 \cdot AD + N_1 \cdot N_4 \cdot N_5 \cdot N_3^2 + N_1 \cdot N_4 \cdot N_5} = 0$$

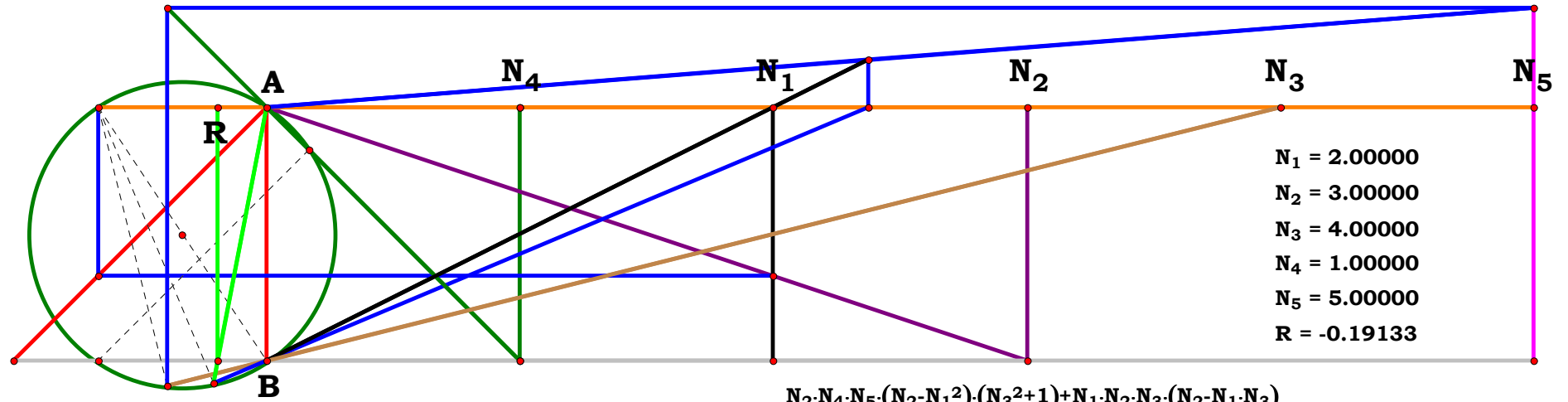
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_2 - N_1^2) \cdot (N_3^2 + 1) + N_1 \cdot N_2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)}{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 + 1) \cdot (N_3^2 + 1) + N_1^2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot A \cdot D \cdot (A \cdot C - B \cdot N_u) + A \cdot (C^2 + N_u^2) \cdot (A^2 - B \cdot N_u)}{E \cdot B \cdot D \cdot (A \cdot C - B \cdot N_u) + A^2 \cdot (C^2 + N_u^2) \cdot (B + N_u)} = 0$$

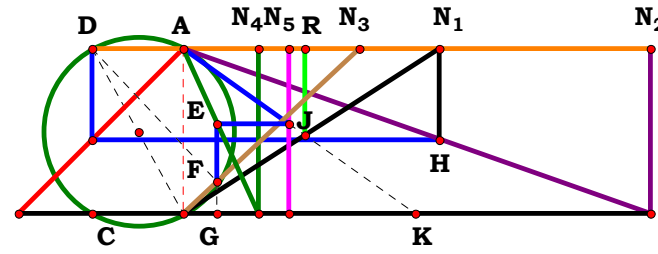
$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot W \cdot Z \cdot 1 \cdot (X^2 + n^2) \cdot (W \cdot 1^2 - V^2 \cdot m) - V \cdot W \cdot X \cdot 1 \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot 1 \cdot n)}{Y \cdot V \cdot W \cdot Z \cdot 1^2 \cdot (X^2 + n^2) \cdot (W + m) - V^2 \cdot X \cdot m \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot 1 \cdot n)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 1.00000$
 $N_5 = 5.00000$
 $R = -0.19133$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_2 - N_1^2) \cdot (N_3^2 + 1) + N_1 \cdot N_2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)}{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_2 + 1) \cdot (N_3^2 + 1) + N_1^2 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.54713$
 $N_2 = 2.82566$
 $N_3 = 1.06757$
 $N_4 = 0.45500$
 $N_5 = 0.63926$
 $R = 0.73582$

Unit. $AB := 1$ Given. $N_1 := 1.54713$ $N_2 := 2.82566$ $N_3 := 1.06757$
 $N_4 := .455$ $N_5 := .63926$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BK := \frac{N_5}{AB - EG} \quad R := \frac{BK \cdot N_1}{BK + N_1} \quad R = 0.735811$$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

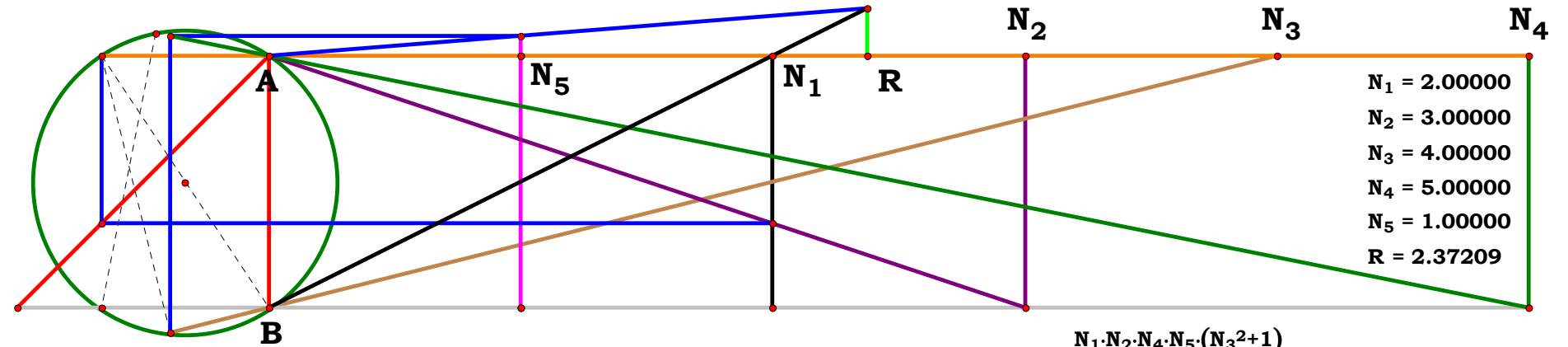
$$R - \frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot (A \cdot C - B \cdot N_u)} = 0$$

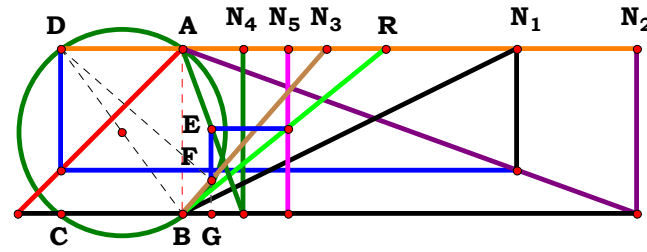
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{Y \cdot W \cdot Z \cdot l^2 \cdot (X^2 + n^2) - V \cdot X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot l \cdot n)} = 0$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $N_5 = 1.00000$
 $R = 2.37209$

$$\frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_2 - N_1 \cdot N_3)} - R = 0.00000$$



$N_1 = 2.02174$
 $N_2 = 2.74817$
 $N_3 = 0.87386$
 $N_4 = 0.36783$
 $N_5 = 0.63926$
 $R = 1.23191$

Unit. $AB := 1$ Given. $N_1 := 2.02174$ $N_2 := 2.74817$ $N_3 := .87386$

$N_4 := .36783$ $N_5 := .63926$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \quad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 1.231892$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 - N_3 + N_3^2 \cdot N_4 + AD \cdot N_3^2} = 0$$

$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_2 \cdot N_3^2 + N_2) \cdot N_4 + N_3 \cdot (N_1 \cdot N_3 - N_2)} = 0$$

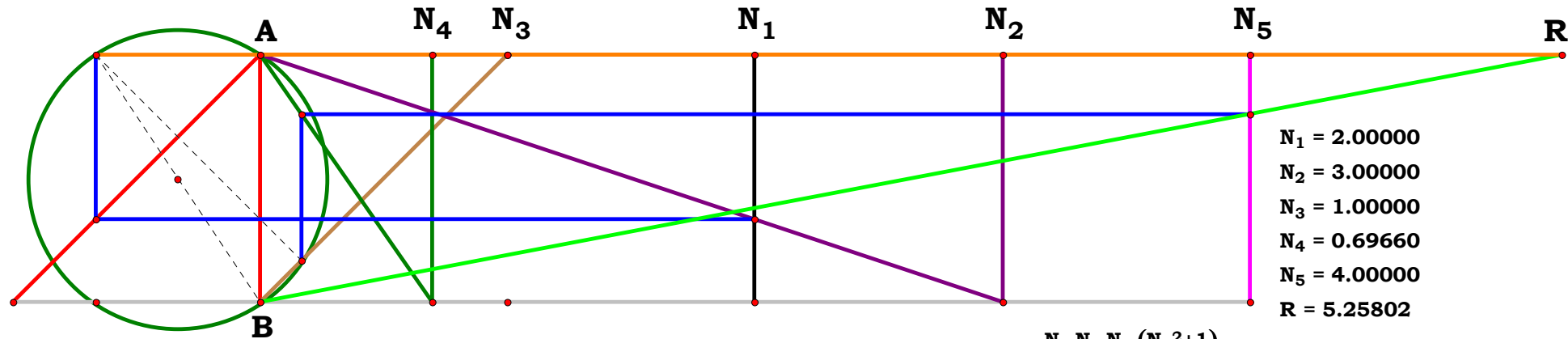
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)]} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

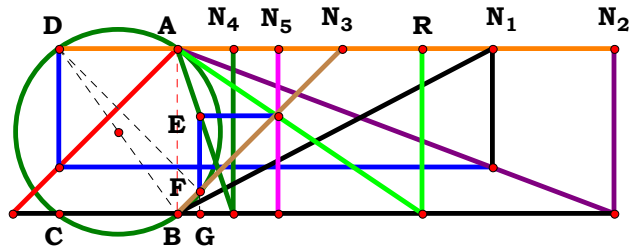
$$R - \frac{W \cdot Y \cdot Z \cdot 1 \cdot (X^2 + n^2)}{p \cdot [Y \cdot W \cdot 1 \cdot (X^2 + n^2) + X \cdot o \cdot (V \cdot X \cdot m - W \cdot 1 \cdot n)]} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $N_4 = 0.69660$
 $N_5 = 4.00000$
 $R = 5.25802$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 \cdot (N_2 \cdot N_3^2 + N_2) + (N_1 \cdot N_3 - N_2)} - R = 0.00000$$



$N_1 = 1.90551$
 $N_2 = 2.64163$
 $N_3 = 0.99977$
 $N_4 = 0.33877$
 $N_5 = 0.61020$
 $R = 1.48279$

Unit. $AB := 1$ Given. $N_1 := 1.90551$ $N_2 := 2.64163$ $N_3 := .99977$

$N_4 := .33877$ $N_5 := .61020$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_1}{N_2} \qquad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3} \qquad BF := BN_3 - FN_3$$

$$BG := \frac{N_3 \cdot BF}{BN_3} \qquad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{AB - EG} \qquad R = 1.482764$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 - AD \cdot N_3^2} = 0$$

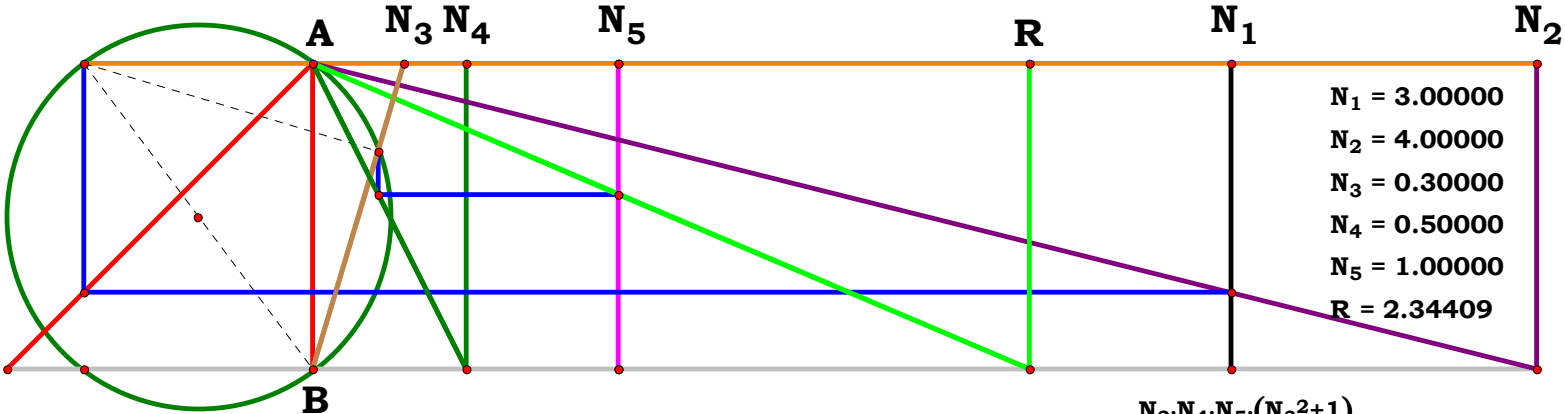
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0 \qquad N_4 - \frac{N_u}{D} = 0 \qquad N_5 - \frac{N_u}{E} = 0$$

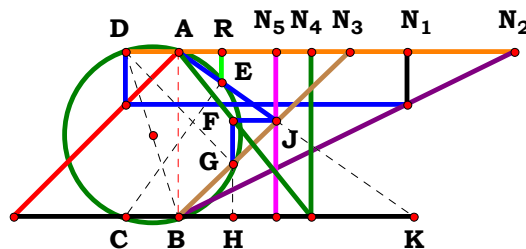
$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \qquad N_2 - \frac{W}{m} = 0 \qquad N_3 - \frac{X}{n} = 0 \qquad N_4 - \frac{Y}{o} = 0 \qquad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{X \cdot o \cdot p \cdot (W \cdot l \cdot n - V \cdot X \cdot m)} = 0$$



$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 - N_1 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 1.03851$
 $N_4 = 0.80369$
 $N_5 = 0.59083$
 $R = 0.25675$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.03851$
 $N_4 := .80369$ $N_5 := .59083$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad GN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BG := BN_3 - GN_3 \quad BH := \frac{N_3 \cdot BG}{BN_3} \quad FH := \frac{N_4 - BH}{N_4}$$

$$BK := \frac{N_5}{AB - FH} \quad AK := \sqrt{AB^2 + BK^2} \quad EK := \frac{BK \cdot (BK + AD)}{AK}$$

$$AE := AK - EK \quad R := \frac{BK \cdot AE}{AK} \quad R = 0.256747$$

Definitions.

$$R - \frac{N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 \cdot (N_1 - N_2) + N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2^2 \cdot N_4^2 \cdot N_5^2 \cdot (N_3^2 + 1)^2 + N_3^2 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2} = 0$$

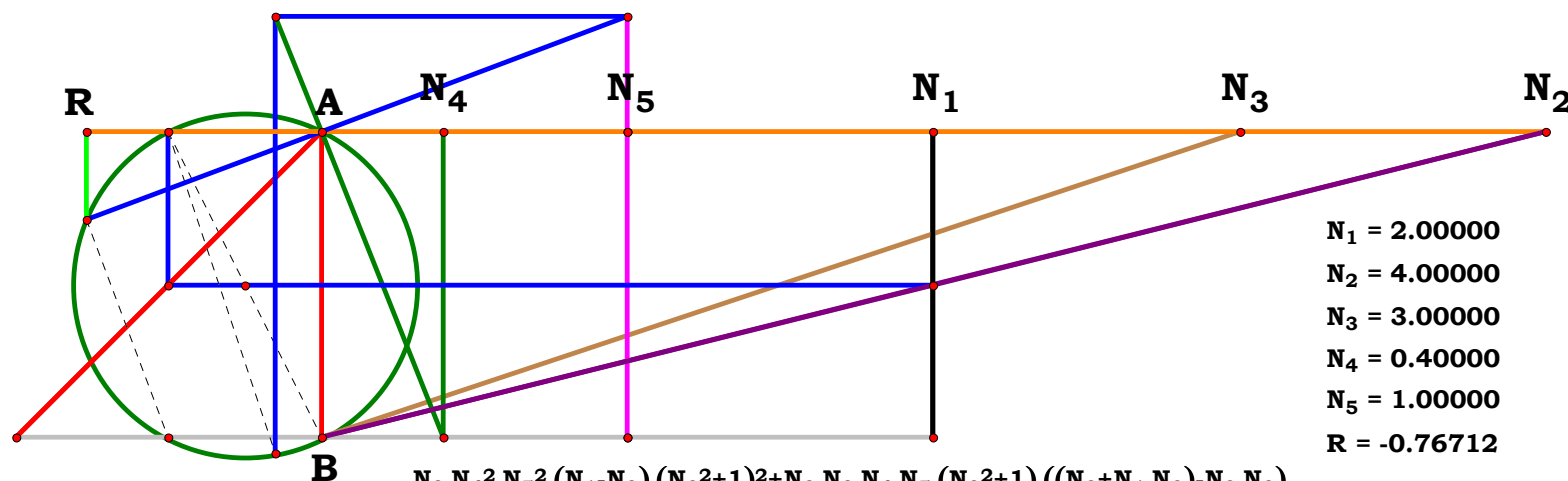
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot [E \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] - N_u \cdot (C^2 + N_u^2) \cdot (A - B)]}{E^2 \cdot D^2 \cdot [A \cdot C - N_u \cdot (A - B)]^2 + A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

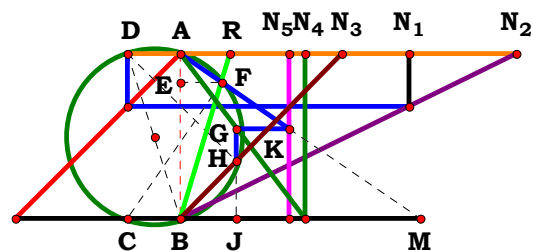
$$R - \frac{W \cdot Y \cdot Z \cdot 1 \cdot (X^2 + n^2) \cdot [Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m - W \cdot 1) + X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)]}{Y^2 \cdot W^2 \cdot Z^2 \cdot 1^2 \cdot (X^2 + n^2)^2 + X^2 \cdot o^2 \cdot p^2 \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)^2} = 0$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$



$N_1 = 2.00000$
 $N_2 = 4.00000$
 $N_3 = 3.00000$
 $N_4 = 0.40000$
 $N_5 = 1.00000$
 $R = -0.76712$

$$\frac{N_2 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 - N_2) \cdot (N_3^2 + 1)^2 + N_2 \cdot N_3 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{(N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1))^2 + N_3^2 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)^2} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.98040$
 $N_4 = 0.75526$
 $N_5 = 0.65863$
 $R = 0.30377$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .98040$

$N_4 := .75526$ $N_5 := .65863$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $1 := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad HN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BH := BN_3 - HN_3 \quad BJ := \frac{N_3 \cdot BH}{BN_3} \quad HJ := \frac{N_4 - BJ}{N_4}$$

$$BM := \frac{N_5}{AB - HJ} \quad AM := \sqrt{AB^2 + BM^2} \quad FM := \frac{BM \cdot (BM + AD)}{AM}$$

$$AF := AM - FM \quad AE := \frac{AF}{AM} \quad EF := \frac{BM \cdot AF}{AM}$$

$$R := \frac{EF}{AB - AE} \quad R = 0.303773$$

Definitions.

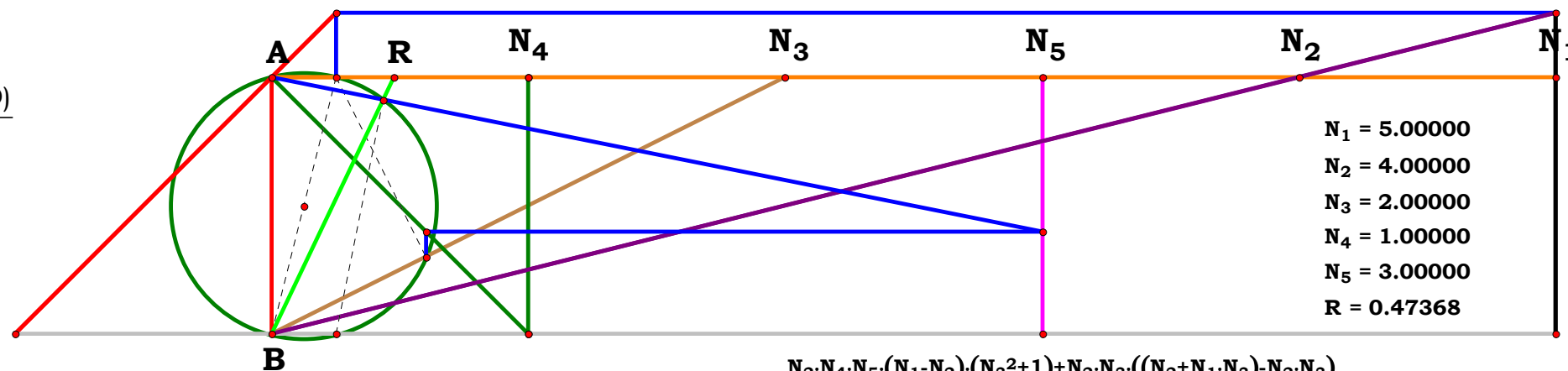
$$R - \frac{AD \cdot N_3^2 - N_3 + AD \cdot N_4 \cdot N_5 + AD \cdot N_3^2 \cdot N_4 \cdot N_5}{AD^2 \cdot N_3^2 - AD \cdot N_3 - N_4 \cdot N_5 \cdot N_3^2 - N_4 \cdot N_5} = 0$$

$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 - N_2) + N_2 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3^2 \cdot (N_1 - N_2)^2 - N_2 \cdot N_3 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot A \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)}{E \cdot D \cdot (A - B) \cdot [A \cdot C - N_u \cdot (A - B)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = 0 \quad N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

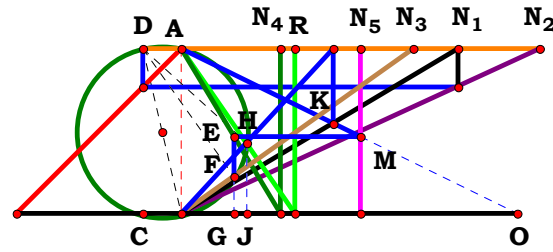
$$R - \frac{W \cdot 1 \cdot [Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m - W \cdot 1) + X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)]}{Y \cdot W^2 \cdot Z \cdot 1^2 \cdot (X^2 + n^2) - X \cdot o \cdot p \cdot (V \cdot m - W \cdot 1) \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)} = 0$$



$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2) \cdot (N_3^2 + 1) + N_2 \cdot N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3^2 \cdot (N_1 - N_2)^2 - N_2 \cdot N_3 \cdot (N_1 - N_2)} - R = 0.00000$$



4RST5AB6R2



$N_1 = 1.67305$
 $N_2 = 2.16702$
 $N_3 = 1.40657$
 $N_4 = 0.60029$
 $N_5 = 1.08481$
 $R = 0.69075$

Unit. $AB := 1$ Given. $N_1 := 1.67305$ $N_2 := 2.16702$ $N_3 := 1.40657$

$N_4 := .60029$ $N_5 := 1.08481$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BO := \frac{N_5}{AB - EG} \quad AK := \frac{BO \cdot N_1}{BO + N_1} \quad BK := \sqrt{AB^2 + AK^2}$$

$$HK := \frac{AK \cdot (AK + AD)}{BK} \quad BH := BK - HK \quad BJ := \frac{AK \cdot BH}{BK}$$

$$HJ := \frac{BJ}{AK} \quad R := \frac{BJ}{AB - HJ} \quad R = 0.690754$$

Definitions.

$$R - \frac{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 \cdot N_4 \cdot N_5}{AD \cdot N_3^2 \cdot N_4 \cdot N_5 - AD^2 \cdot N_1 \cdot N_3^2 + AD \cdot N_1 \cdot N_3 + AD \cdot N_4 \cdot N_5 + N_1 \cdot N_3^2 \cdot N_4 \cdot N_5 + N_1 \cdot N_4 \cdot N_5} = 0$$

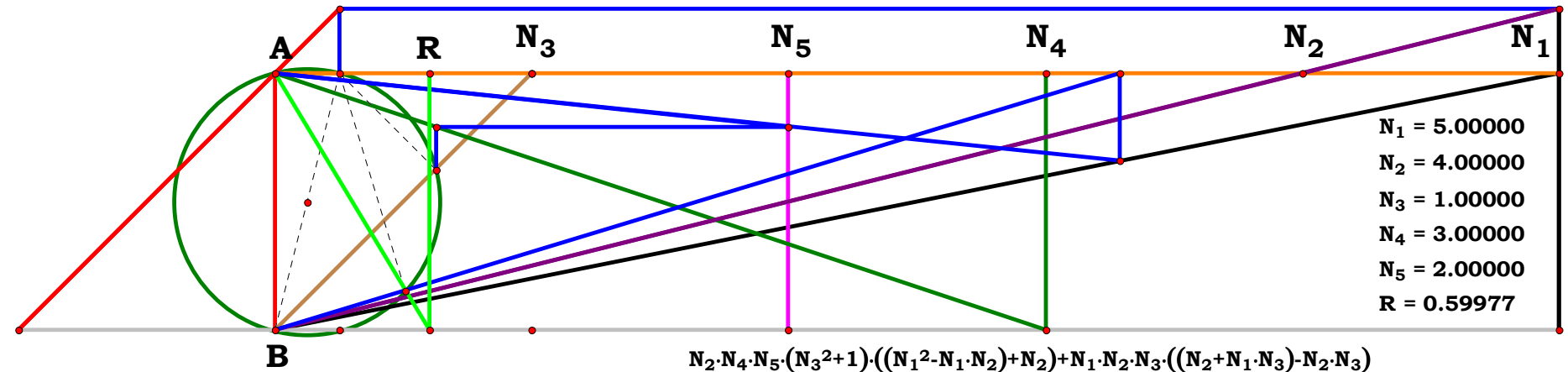
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1^2 - N_1 \cdot N_2 + N_2) + N_1 \cdot N_2 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_2 - N_1 + N_1 \cdot N_2) - N_1 \cdot N_3 \cdot (N_1 - N_2) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{E \cdot A \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] + A \cdot (C^2 + N_u^2) \cdot [A^2 - N_u \cdot (A - B)]}{E \cdot D \cdot (A - B) \cdot [A \cdot C - N_u \cdot (A - B)] + A^2 \cdot (C^2 + N_u^2) \cdot (A - B + N_u)} = 0$$

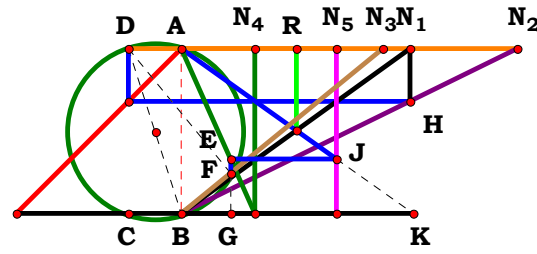
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot W \cdot Z \cdot l \cdot (X^2 + n^2) \cdot (m \cdot V^2 - W \cdot V \cdot l + W \cdot l^2) + V \cdot W \cdot X \cdot l \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)}{Y \cdot W \cdot Z \cdot l^2 \cdot (X^2 + n^2) \cdot (V \cdot W - V \cdot m + W \cdot l) - V \cdot X \cdot o \cdot p \cdot (V \cdot m - W \cdot l) \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 1.00000$
 $N_4 = 3.00000$
 $N_5 = 2.00000$
 $R = 0.59977$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_1^2 - N_1 \cdot N_2) + N_2) + N_1 \cdot N_2 \cdot N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot ((N_2 - N_1) + N_1 \cdot N_2) - N_1 \cdot N_3 \cdot (N_1 - N_2) \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 1.22254$
 $N_4 = 0.44532$
 $N_5 = 0.93952$
 $R = 0.69579$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.22254$

$N_4 := .44532$ $N_5 := .93952$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$BK := \frac{N_5}{AB - EG} \quad R := \frac{BK \cdot N_1}{BK + N_1} \quad R = 0.695788$$

Definitions.

$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_1 \cdot N_3 + N_4 \cdot N_5 - AD \cdot N_1 \cdot N_3^2 + N_3^2 \cdot N_4 \cdot N_5} = 0$$

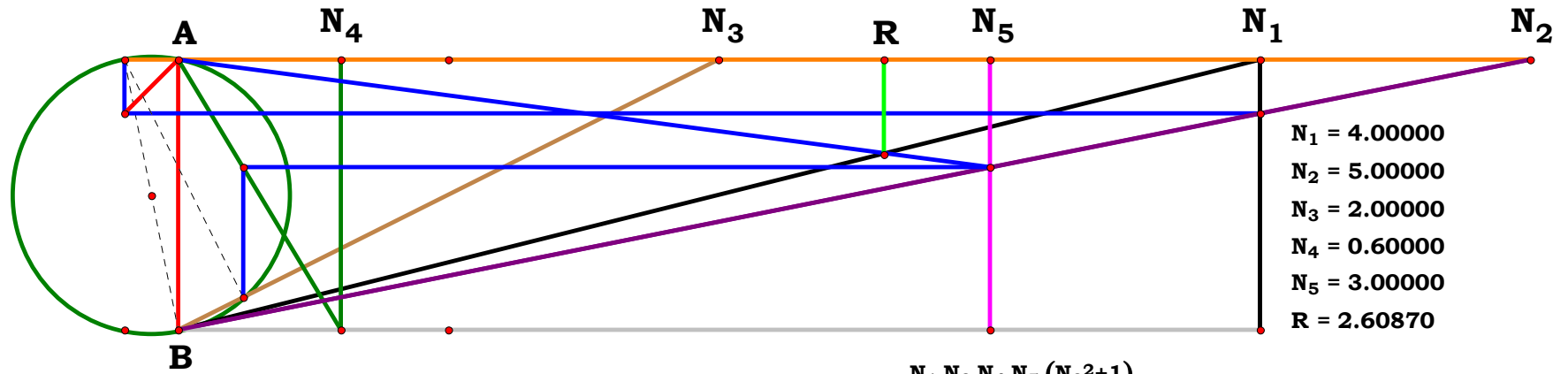
$$R - \frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]} = 0$$

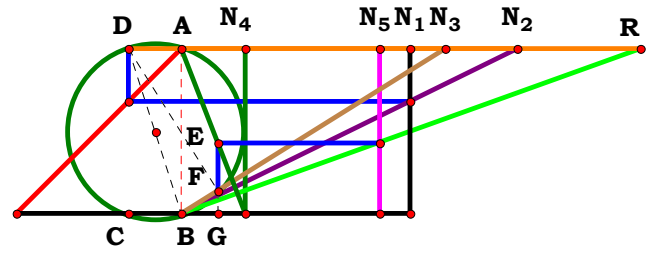
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{Y \cdot W \cdot Z \cdot l^2 \cdot (X^2 + n^2) + V \cdot X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 4.00000$
 $N_2 = 5.00000$
 $N_3 = 2.00000$
 $N_4 = 0.60000$
 $N_5 = 3.00000$
 $R = 2.60870$

$$\frac{N_1 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) + N_1 \cdot N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 1.60029$
 $N_4 = 0.38720$
 $N_5 = 1.20104$
 $R = 2.77566$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.60029$

$N_4 := .38720$ $N_5 := 1.20104$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{EG} \quad R = 2.775673$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_4 - N_3 + N_3^2 \cdot N_4 + AD \cdot N_3^2} = 0$$

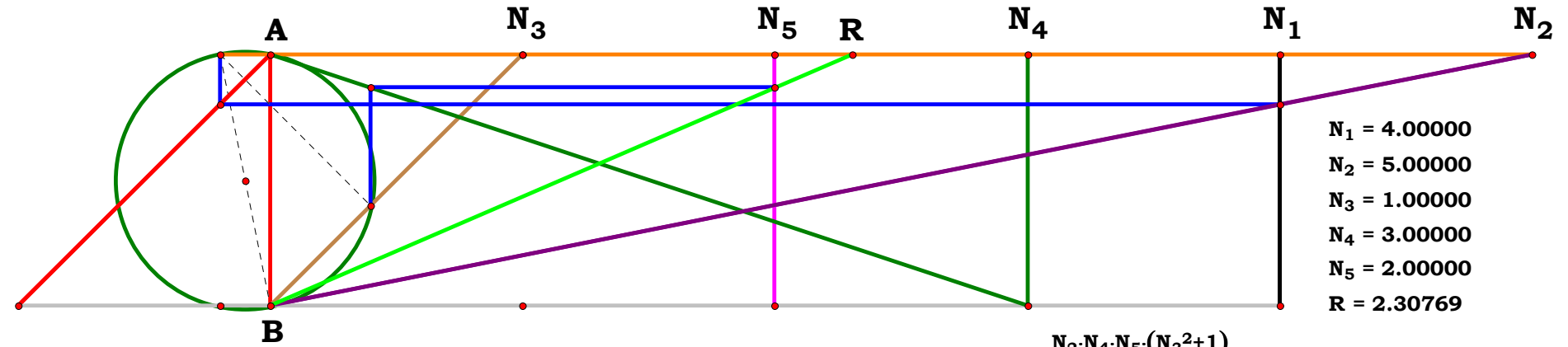
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_2 - N_1 + N_2 \cdot N_4) \cdot N_3^2 - N_2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{p \cdot [Y \cdot W \cdot l \cdot (X^2 + n^2) - X \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)]} = 0$$

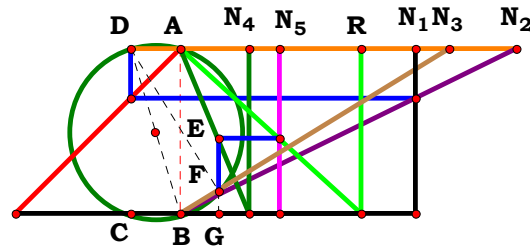


$N_1 = 4.00000$
 $N_2 = 5.00000$
 $N_3 = 1.00000$
 $N_4 = 3.00000$
 $N_5 = 2.00000$
 $R = 2.30769$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3^2 \cdot ((N_2 - N_1) + N_2 \cdot N_4) - N_2 \cdot (N_3 - N_4)} - R = 0.00000$$



4RST5AB6R5



$N_1 = 1.42122$
 $N_2 = 2.03142$
 $N_3 = 1.62935$
 $N_4 = 0.41626$
 $N_5 = 0.60052$
 $R = 1.09820$

Unit. $AB := 1$ Given. $N_1 := 1.42122$ $N_2 := 2.03142$ $N_3 := 1.62935$

$N_4 := .41626$ $N_5 := .60052$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AD := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad FN_3 := \frac{N_3 \cdot (N_3 + AD)}{BN_3}$$

$$BF := BN_3 - FN_3 \quad BG := \frac{N_3 \cdot BF}{BN_3} \quad EG := \frac{N_4 - BG}{N_4}$$

$$R := \frac{N_5}{AB - EG} \quad R = 1.098197$$

Definitions.

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 - AD \cdot N_3^2} = 0$$

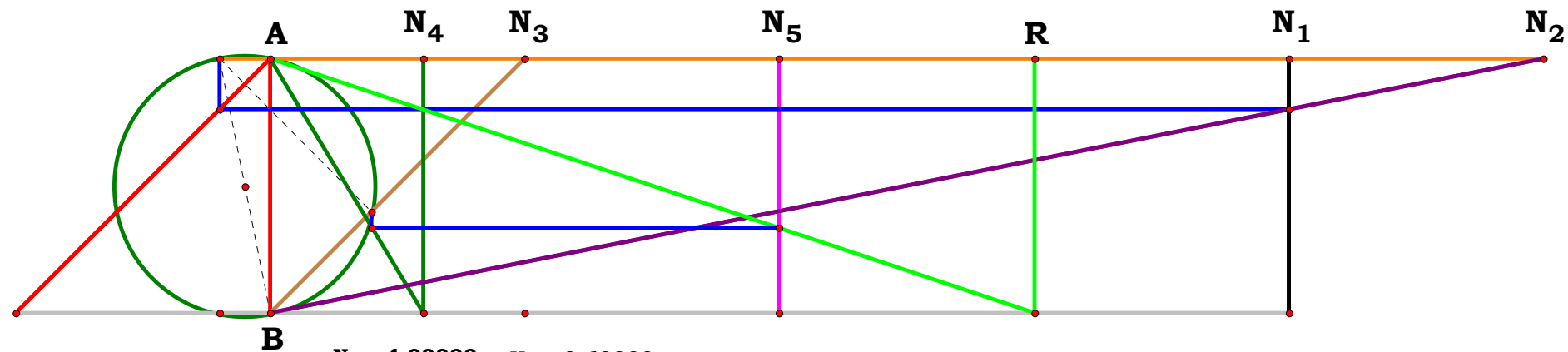
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [A \cdot C \cdot D - D \cdot N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

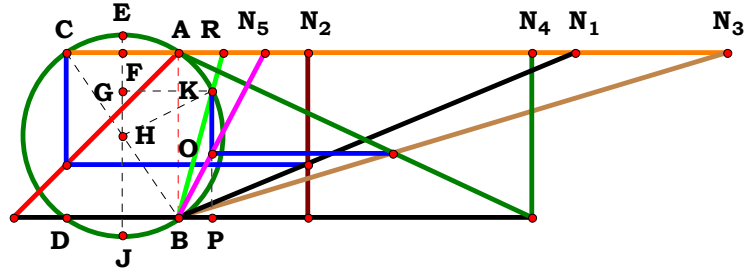
$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 4.00000$
 $N_2 = 5.00000$
 $N_3 = 1.00000$

$N_4 = 0.60000$
 $N_5 = 2.00000$
 $R = 3.00000$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$



$N_1 = 2.39948$
 $N_2 = 0.78196$
 $N_3 = 3.32436$
 $N_4 = 2.14033$
 $N_5 = 0.52303$
 $R = 0.26797$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := .78196$ $N_3 := 3.32436$

$N_4 := 2.14033$ $N_5 := .52303$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := BP + AF \quad HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := \frac{AB}{2} + GH \quad R := \frac{BP}{KO} \quad R = 0.267969$$

Definitions.

$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2}}{\left[(N_3 + N_4) \cdot \left[\sqrt{(N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot [AC \cdot (N_3 + N_4) + N_4 \cdot N_5]} + \sqrt{(N_3 + N_4)^2} \right] \right]} = 0$$

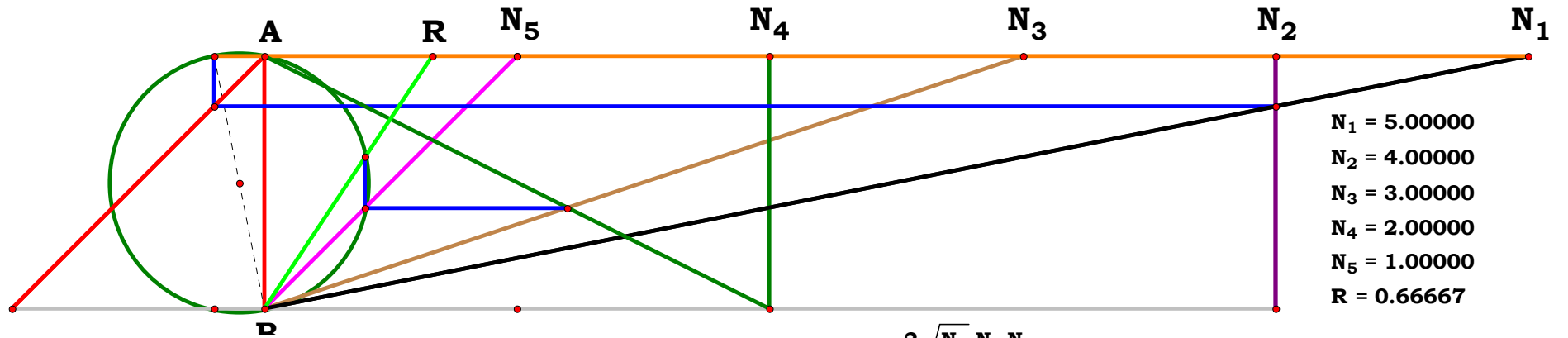
$$R - \frac{2 \cdot \sqrt{N_1} \cdot N_4 \cdot N_5}{\sqrt{N_1} \cdot (N_3 + N_4) + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot (\sqrt{N_u})^3 \cdot \sqrt{B}}{\sqrt{N_u} \cdot [B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)} = 0$$

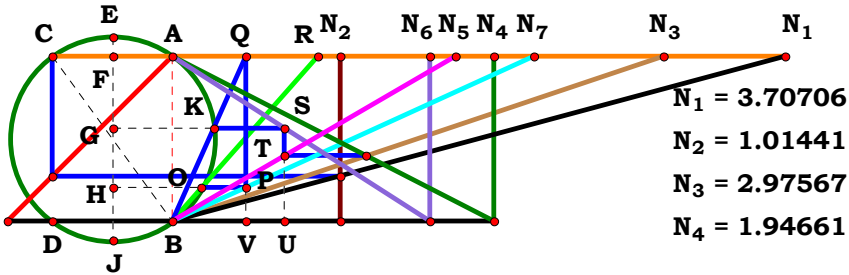
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{V} \cdot Y \cdot Z \cdot n \cdot \sqrt{l \cdot m}}{\sqrt{l} \cdot \sqrt{V \cdot m \cdot p^2 \cdot (X \cdot o + Y \cdot n)^2 - 4 \cdot Y \cdot Z \cdot n \cdot p \cdot (V \cdot m - W \cdot l) \cdot (X \cdot o + Y \cdot n) - 4 \cdot V \cdot Y^2 \cdot m \cdot n^2 \cdot Z^2} + \sqrt{l \cdot m} \cdot \sqrt{V} \cdot p \cdot (X \cdot o + Y \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $N_5 = 1.00000$
 $R = 0.66667$

$$\frac{2 \cdot \sqrt{N_1} \cdot N_4 \cdot N_5}{\sqrt{N_1} \cdot (N_3 + N_4) + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} - R = 0.00000$$



$N_1 = 3.70706$ $N_5 = 1.71438$
 $N_2 = 1.01441$ $N_6 = 1.55941$
 $N_3 = 2.97567$ $N_7 = 2.18899$
 $N_4 = 1.94661$ $R = 0.88032$

Unit. $AB := 1$ Given. $N_1 := 3.70706$ $N_2 := 1.01441$ $N_3 := 2.97567$ $N_4 := 1.94661$
 $N_5 := 1.71438$ $N_6 := 1.55941$ $N_7 := 2.18899$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

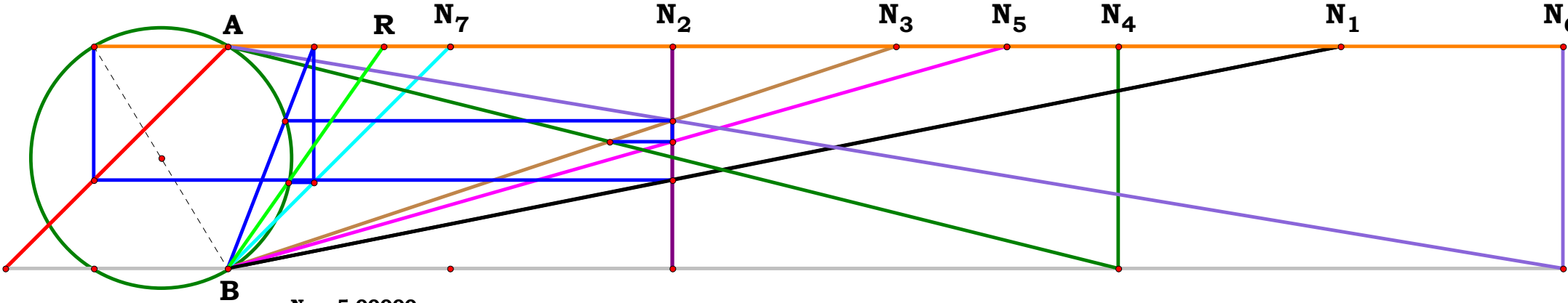
$$TU := \frac{N_4}{N_3 + N_4} \qquad BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6} \qquad GJ := SU + EF$$

$$GK := \sqrt{GJ \cdot (EJ - GJ)} \qquad AQ := \frac{GK - AF}{SU}$$

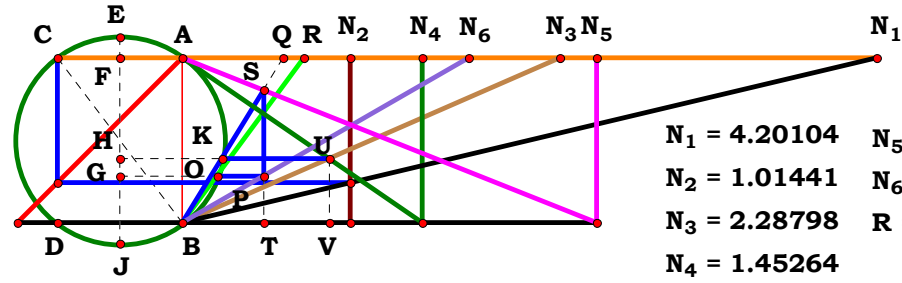
$$PV := \frac{AQ}{N_7} \qquad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \qquad R := \frac{HO - AF}{PV}$$



$N_1 = 5.00000$	$N_5 = 3.50000$	$AB = 1.00000$	$EF = 0.08310$	$GJ = 0.74976$	$HJ = 0.47125$
$N_2 = 2.00000$	$N_6 = 6.00000$	$AC = 0.60000$	$TU = 0.57143$	$GK = 0.55877$	$HO = 0.57227$
$N_3 = 3.00000$	$N_7 = 1.00000$	$EJ = 1.16619$	$BU = 2.00000$	$AQ = 0.38815$	$R - \frac{HO - AF}{PV} = 0.00000$
$N_4 = 4.00000$	$R = 0.70144$	$AF = 0.30000$	$SU = 0.66667$	$PV = 0.38815$	

$R = 0.880317$



Unit. $AB := 1$ Given. $N_1 := 4.20104$ $N_2 := 1.01441$ $N_3 := 2.28798$
 $N_4 := 1.45264$ $N_5 := 2.50862$ $N_6 := 1.73376$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

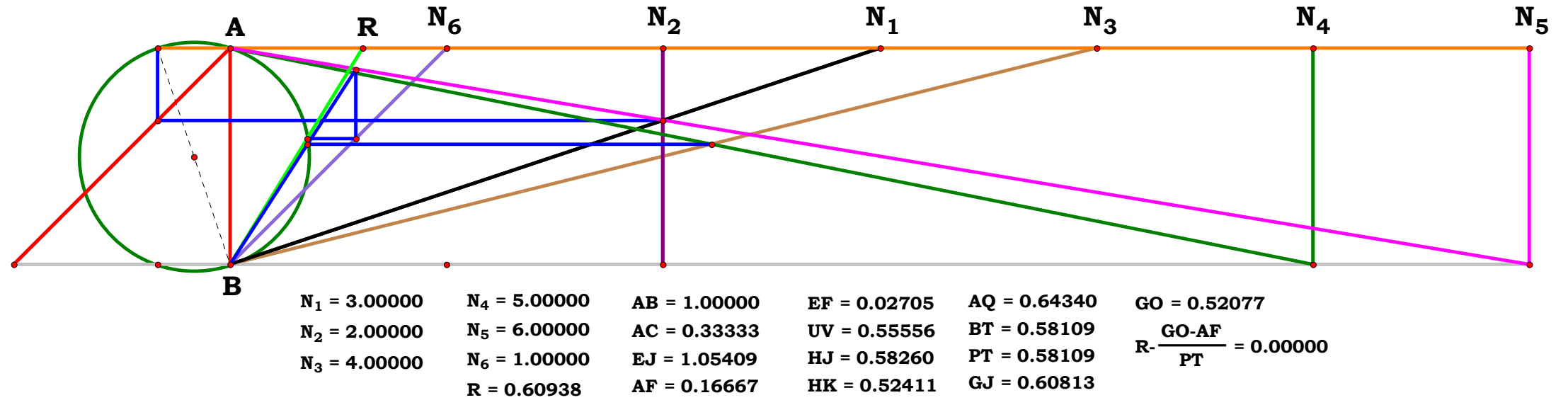
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.738818$$



Definitions.

$$A := \left(2 \cdot N_5 - N_6 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \cdot AC - 2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \left(\sqrt{AC^2 + 1} - 1 \right)$$

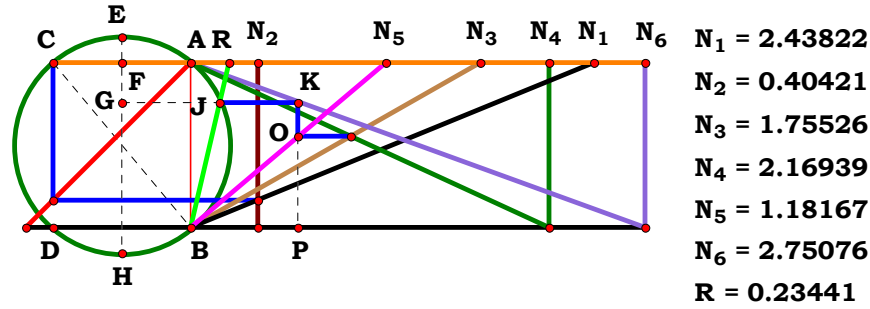
$$B := \left(N_6 - 2 \cdot N_5 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \cdot AC - 2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \left(\sqrt{AC^2 + 1} + 1 \right)$$

$$C := \left(2 \cdot N_5 - N_6 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4)$$

$$D := \left(N_6 - 2 \cdot N_5 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \quad P := \sqrt{(N_3 + N_4)^2 \cdot AC^2 + 4 \cdot N_3 \cdot N_4}$$

$$X := \sqrt{\left[A \cdot \sqrt{(N_3 + N_4)^2 - C \cdot P} \right] \cdot \left[B \cdot \sqrt{(N_3 + N_4)^2 - D \cdot P} \right]} \quad Y := \sqrt{16 \cdot N_6^2 \cdot \left[P \cdot (N_3 + N_4) + \left[2 \cdot N_4 \cdot N_5 - AC \cdot (N_3 + N_4) \right] \cdot \sqrt{(N_3 + N_4)^2} \right]^2}$$

$$R - \frac{N_6 \cdot (AC \cdot Y - 4 \cdot X) \cdot \left[\left[AC \cdot \sqrt{(N_3 + N_4)^2 - P} \right] \cdot (N_3 + N_4) - 2 \cdot N_4 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]}{2 \cdot N_5 \cdot Y \cdot \left[P - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.43822$ $N_2 := .40421$ $N_3 := 1.75526$
 $N_4 := 2.16939$ $N_5 := 1.18167$ $N_6 := 2.75076$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

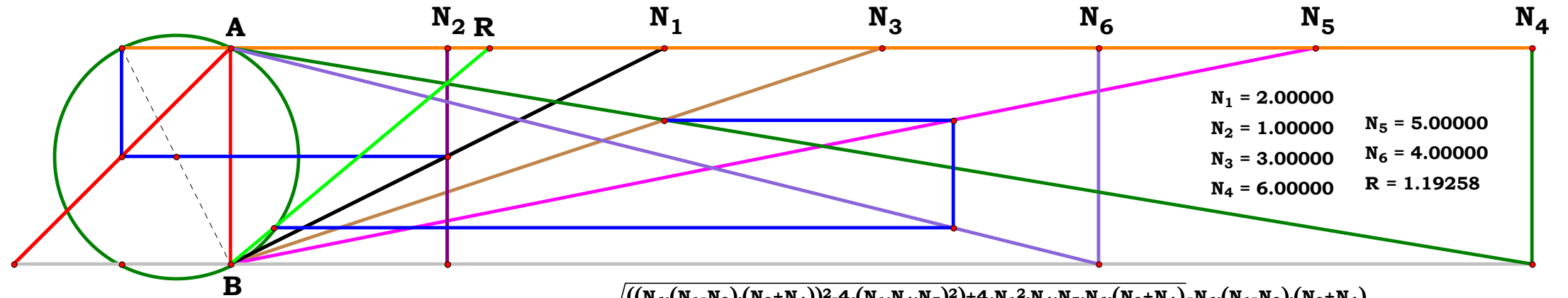
$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad EF := \frac{EH - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$KP := AB - \frac{BP}{N_6} \quad GH := KP + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GJ - AF}{KP}$$

$$R = 0.234414$$



Definitions.

$$\frac{\sqrt{((N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4))^2 - 4 \cdot (N_1 \cdot N_4 \cdot N_5)^2) + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4) - N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4)}}{2 \cdot N_1 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$

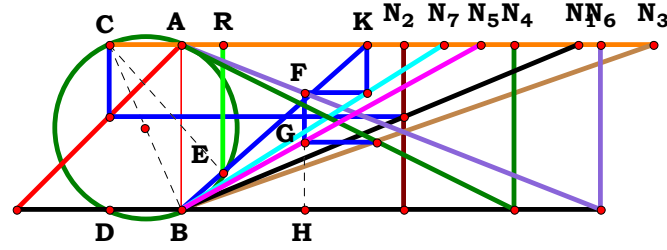
$$R - \frac{\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 - 4 \cdot N_1^2 \cdot N_4^2 \cdot N_5^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot (N_3 + N_4) - N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}}{2 \cdot N_1 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}}{2 \cdot B \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Z^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l - V \cdot k)^2 + 4 \cdot Z \cdot U^2 \cdot X \cdot Y \cdot l^2 \cdot m \cdot o \cdot p \cdot (W \cdot n + X \cdot m) - 4 \cdot U^2 \cdot X^2 \cdot Y^2 \cdot l^2 \cdot m^2 \cdot p^2 - Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l - V \cdot k)}}{2 \cdot U \cdot l \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$



$N_1 = 2.39948$
 $N_2 = 1.34373$
 $N_3 = 2.85944$
 $N_4 = 2.01441$
 $N_5 = 1.81124$
 $N_6 = 2.53768$
 $N_7 = 1.58847$
 $R = 0.25202$

Unit. $AB := 1$ Given. $N_1 := 2.39938$ $N_2 := 1.34373$ $N_3 := 2.85944$ $N_4 := 2.01441$

$N_5 := 1.81124$ $N_6 := 2.53768$ $N_7 := 1.58847$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$j := \frac{T}{N_1}$ $k := \frac{U}{N_2}$ $l := \frac{V}{N_3}$ $m := \frac{W}{N_4}$ $n := \frac{X}{N_5}$ $o := \frac{Y}{N_6}$ $p := \frac{Z}{N_7}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad GH := \frac{N_4}{N_3 + N_4}$$

$$BH := N_5 \cdot GH \quad FH := \frac{N_6 - BH}{N_6}$$

$$AK := N_7 \cdot FH \quad BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK}$$

$$R := AK \cdot \frac{(BK - EK)}{BK} \quad R = 0.252028$$

Definitions.

$$R - \frac{N_7 \cdot [N_6 \cdot (N_3 + N_4)] \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - (AC \cdot N_7^2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2}{(N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2 \cdot N_7^2 + N_6^2 \cdot (N_3 + N_4)^2} = 0$$

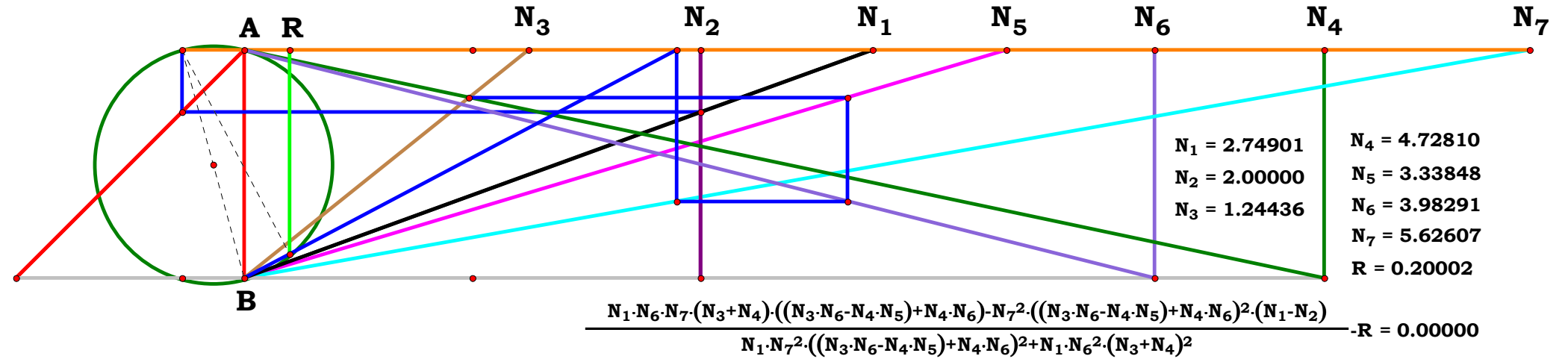
$$R - \frac{N_1 \cdot N_6 \cdot N_7 \cdot (N_3 + N_4) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2 \cdot (N_1 - N_2)}{N_1 \cdot N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2 + N_1 \cdot N_6^2 \cdot (N_3 + N_4)^2} = 0$$

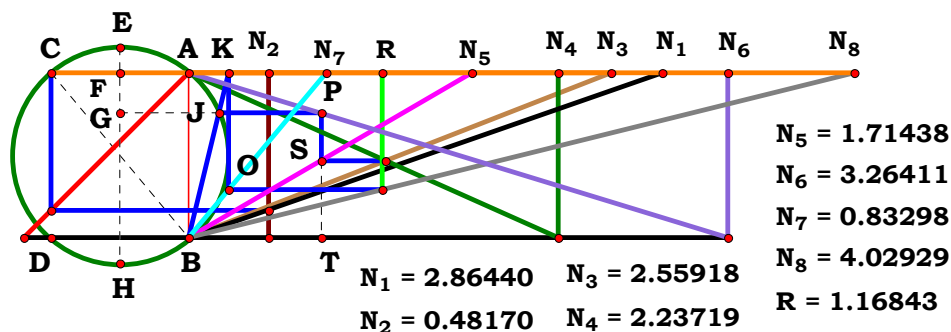
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [E \cdot (C + D) \cdot [B \cdot G + N_u \cdot (A - B)] - C \cdot F \cdot N_u \cdot (A - B)]}{B \cdot [E^2 \cdot (G^2 + N_u^2) \cdot (C + D)^2 - 2 \cdot E \cdot C \cdot F \cdot N_u^2 \cdot (C + D) + C^2 \cdot F^2 \cdot N_u^2]} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot T \cdot Y \cdot k \cdot n \cdot p \cdot (V \cdot m + W \cdot l) \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) - Z^2 \cdot (T \cdot k - U \cdot j) \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)^2}{Z^2 \cdot T \cdot k \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)^2 + T \cdot Y^2 \cdot k \cdot n^2 \cdot p^2 \cdot (V \cdot m + W \cdot l)^2} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.86440$ $N_2 := .48170$ $N_3 := 2.55918$ $N_4 := 2.23719$
 $N_5 := 1.71438$ $N_6 := 3.26411$ $N_7 := .83298$ $N_8 := 4.02929$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$

Descriptions.

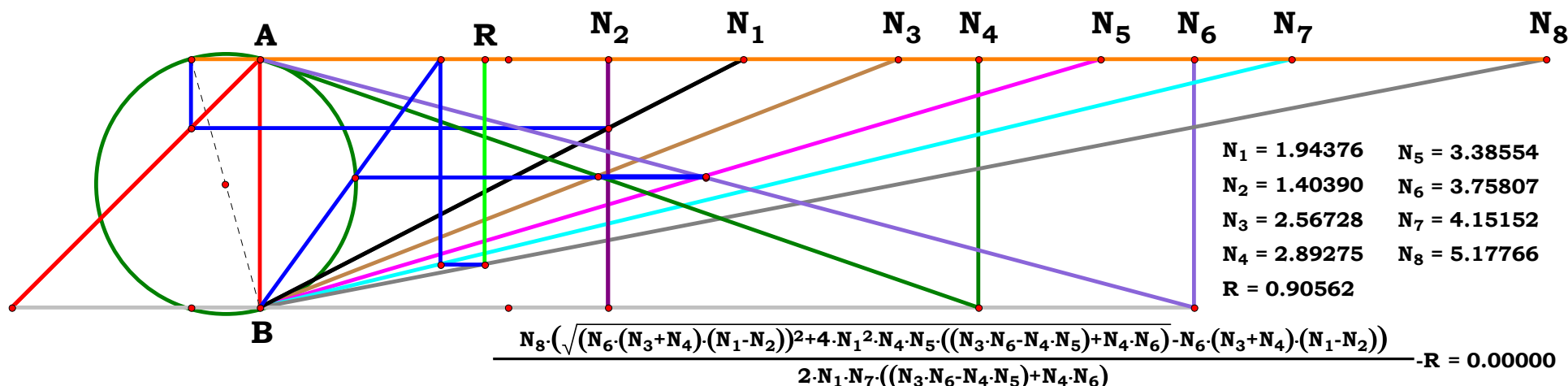
$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6} \quad GH := PT + EF \quad GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{(GJ - AF)}{PT} \quad KO := \frac{N_7 - AK}{N_7} \quad R := N_8 \cdot (AB - KO)$$

$R = 1.168423$



Definitions.

$$R - \frac{N_6 \cdot N_8 \cdot (N_3 + N_4) \cdot \left[\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot AC^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - AC \cdot \sqrt{N_6^2 \cdot (N_3 + N_4)^2} \right]}{2 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) \cdot \sqrt{N_6^2 \cdot (N_3 + N_4)^2}} = 0$$

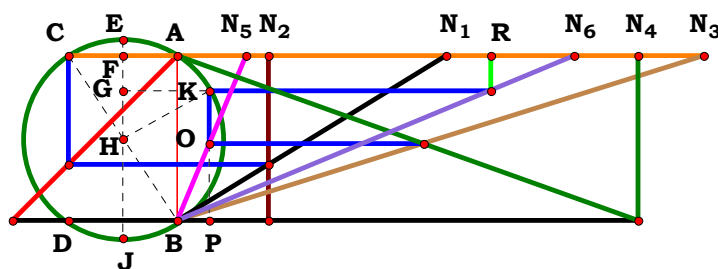
$$R - \frac{N_8 \cdot \left[\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2) \right]}{2 \cdot N_1 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)} \right]}{2 \cdot B \cdot H \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot o \cdot \left[\sqrt{4 \cdot W \cdot S^2 \cdot V \cdot X \cdot j^2 \cdot k \cdot m \cdot n \cdot (U \cdot l + V \cdot k) - 4 \cdot S^2 \cdot V^2 \cdot j^2 \cdot k^2 \cdot n^2 \cdot W^2 + X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2 \cdot (S \cdot j - T \cdot h)^2} + X \cdot m \cdot (U \cdot l + V \cdot k) \cdot (T \cdot h - S \cdot j) \right]}{2 \cdot S \cdot Y \cdot j \cdot p \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$



$N_1 = 1.62462$
 $N_2 = 0.54950$
 $N_3 = 3.18876$
 $N_4 = 2.78928$
 $N_5 = 0.41649$
 $N_6 = 2.40207$
 $R = 1.89571$

Unit. $AB := 1$ Given. $N_1 := 1.62462$ $N_2 := .54950$ $N_3 := 3.18875$
 $N_4 := 2.78928$ $N_5 := .41649$ $N_6 := 2.40207$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP \quad GH := \sqrt{HK^2 - GK^2}$$

$$KP := GH + HK - EF \quad R := N_6 \cdot KP \quad R = 1.895708$$

Definitions.

$$R - \frac{N_6 \cdot \left[\sqrt{(N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot [AC \cdot (N_3 + N_4) + N_4 \cdot N_5]} + \sqrt{(N_3 + N_4)^2} \right]}{2 \cdot \sqrt{(N_3 + N_4)^2}} = 0$$

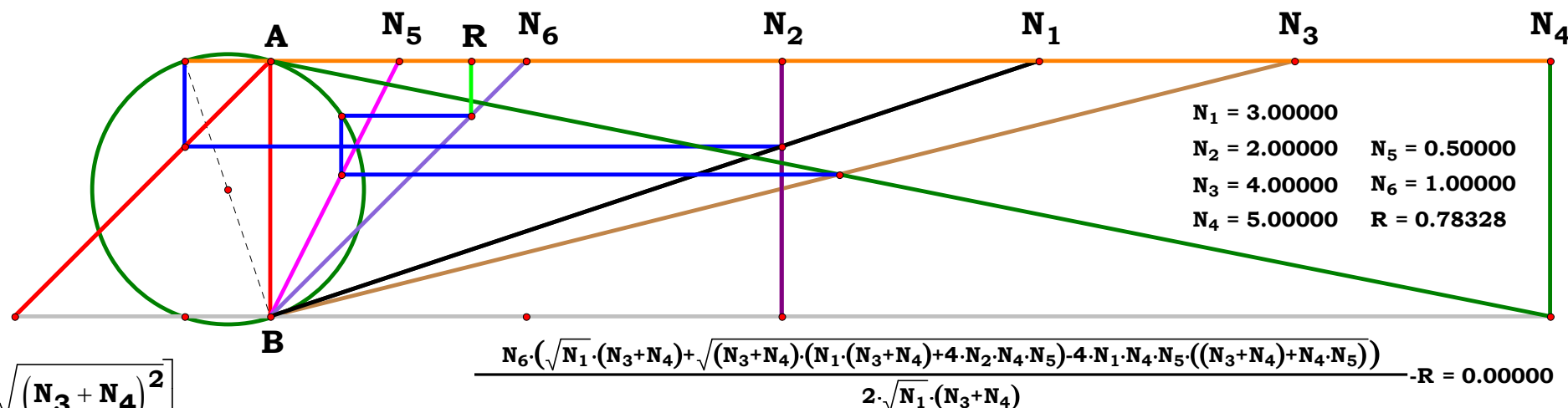
$$R - \frac{N_6 \cdot \left[\sqrt{N_1 \cdot (N_3 + N_4)} + \sqrt{[N_1 \cdot (N_3 + N_4) + 4 \cdot N_2 \cdot N_4 \cdot N_5] \cdot (N_3 + N_4) - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4 + N_4 \cdot N_5)} \right]}{2 \cdot \sqrt{N_1 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot [B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{B} \cdot E} = 0$$

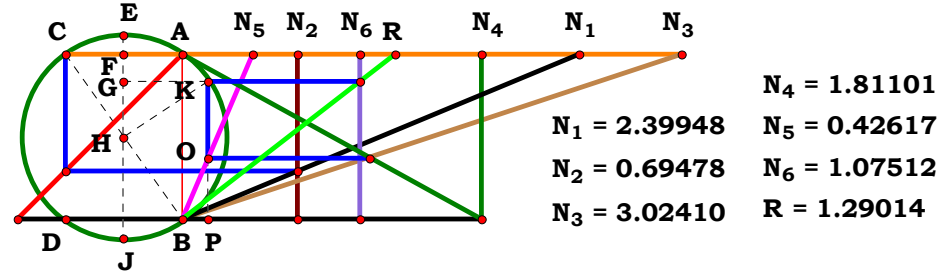
$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{k} \cdot \sqrt{U \cdot l \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - 4 \cdot X \cdot Y \cdot m \cdot o \cdot (U \cdot l - V \cdot k) \cdot (W \cdot n + X \cdot m) - 4 \cdot U \cdot X^2 \cdot l \cdot m^2 \cdot Y^2} + \sqrt{k \cdot l} \cdot \sqrt{U \cdot o} \cdot (W \cdot n + X \cdot m) \right]}{2 \cdot \sqrt{U} \cdot p \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k \cdot l \cdot o}} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$ $N_5 = 0.50000$
 $N_3 = 4.00000$ $N_6 = 1.00000$
 $N_4 = 5.00000$ $R = 0.78328$

$$\frac{N_6 \cdot (\sqrt{N_1 \cdot (N_3 + N_4)} + \sqrt{(N_3 + N_4) \cdot (N_1 \cdot (N_3 + N_4) + 4 \cdot N_2 \cdot N_4 \cdot N_5) - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot ((N_3 + N_4) + N_4 \cdot N_5)})}{2 \cdot \sqrt{N_1 \cdot (N_3 + N_4)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := .69478$ $N_3 := 3.02410$

$N_4 := 1.81101$ $N_5 := .42617$ $N_6 := 1.07512$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP \quad GH := \sqrt{HK^2 - GK^2}$$

$$KP := GH + HK - EF \quad R := \frac{N_6}{KP} \quad R = 1.290132$$

Definitions.

$$R - \frac{2 \cdot N_6 \cdot \sqrt{(N_3 + N_4)^2}}{\sqrt{(N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot AC} + \sqrt{(N_3 + N_4)^2}} = 0$$

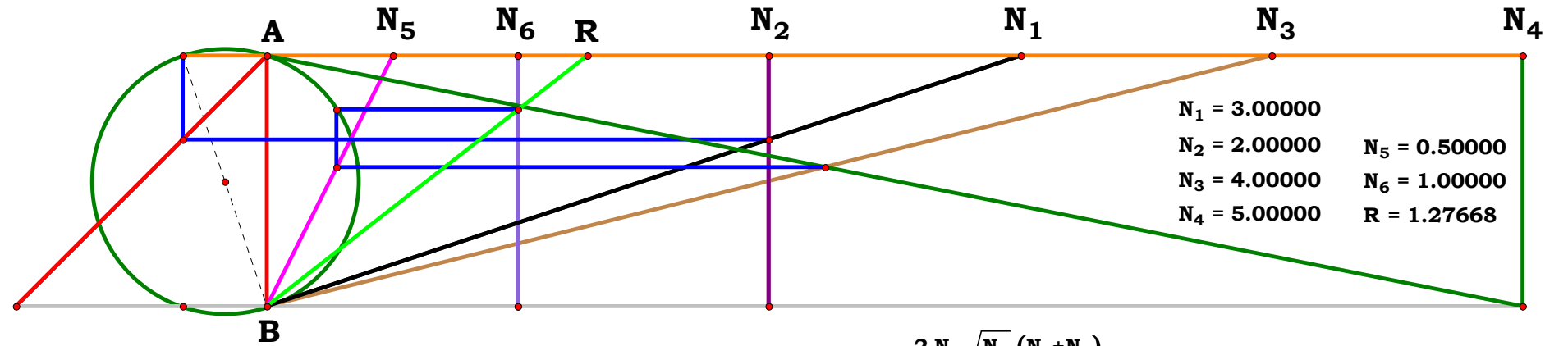
$$R - \frac{2 \cdot \sqrt{N_1} \cdot N_6 \cdot (N_3 + N_4)}{\sqrt{N_1 \cdot (N_3 + N_4)} + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

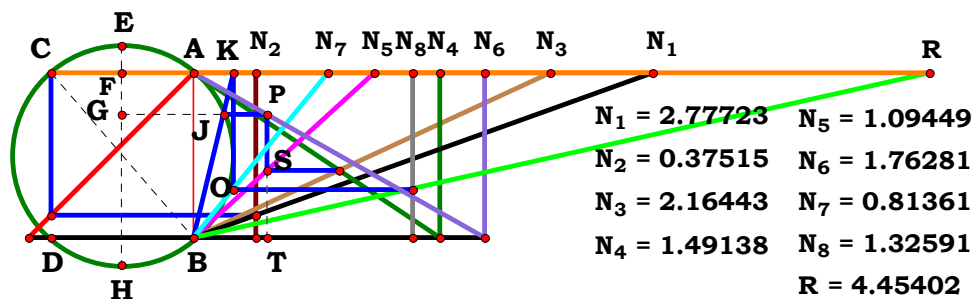
$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{U} \cdot Z \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k \cdot l} \cdot o}{p \cdot \left[\sqrt{k} \cdot \sqrt{U \cdot l \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - 4 \cdot Y \cdot X \cdot m \cdot o \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l - V \cdot k)} - 4 \cdot U \cdot X^2 \cdot l \cdot m^2 \cdot Y^2 + \sqrt{k \cdot l} \cdot \sqrt{U} \cdot o \cdot (W \cdot n + X \cdot m) \right]} = 0$$



$$\frac{2 \cdot N_6 \cdot \sqrt{N_1} \cdot (N_3 + N_4)}{\sqrt{N_1} \cdot (N_3 + N_4) + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.77723$ $N_2 := .37515$ $N_3 := 2.16443$ $N_4 := 1.49138$
 $N_5 := 1.09449$ $N_6 := 1.76281$ $N_7 := .81361$ $N_8 := 1.32591$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

$S := 20$ $T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$h := \frac{S}{N_1}$ $j := \frac{T}{N_2}$ $k := \frac{Y}{N_3}$ $l := \frac{V}{N_4}$ $m := \frac{W}{N_5}$ $n := \frac{X}{N_6}$ $o := \frac{Y}{N_7}$ $p := \frac{Z}{N_8}$

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

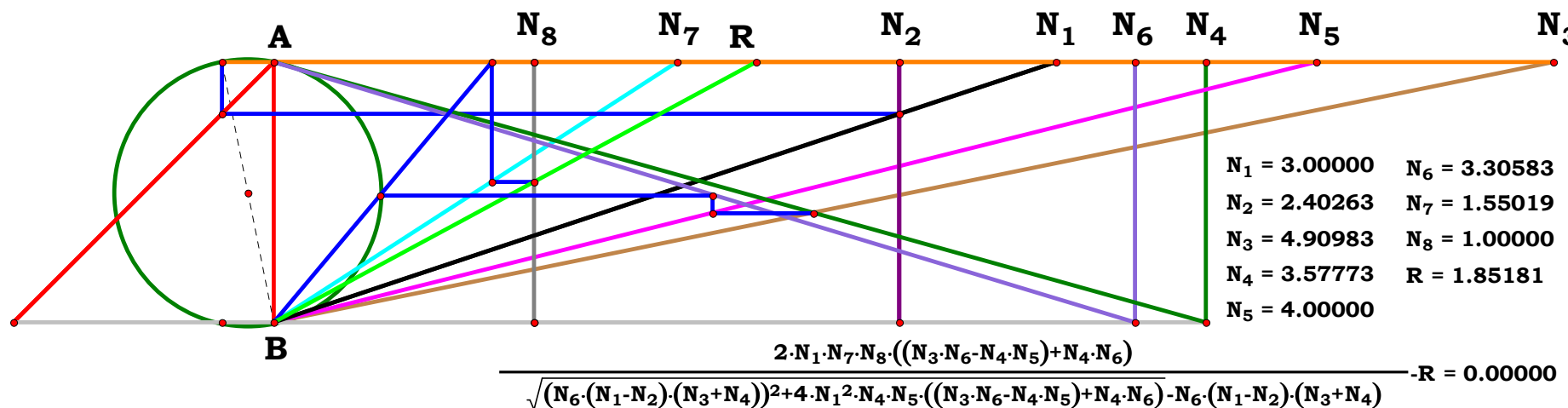
$$EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6} \quad GH := PT + EF \quad GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT} \quad KO := \frac{N_7 - AK}{N_7} \quad R := \frac{N_8}{AB - KO}$$

$$R = 4.454068$$

Definitions.



$N_1 = 3.00000$ $N_6 = 3.30583$
 $N_2 = 2.40263$ $N_7 = 1.55019$
 $N_3 = 4.90983$ $N_8 = 1.00000$
 $N_4 = 3.57773$ $R = 1.85181$
 $N_5 = 4.00000$

$$\frac{2 \cdot N_1 \cdot N_7 \cdot N_8 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)}{\sqrt{(N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4))^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) - N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4)}} - R = 0.00000$$

$$R - \frac{2 \cdot N_7 \cdot N_8 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) \cdot \sqrt{[N_6 \cdot (N_3 + N_4)]^2}}{N_6 \cdot (N_3 + N_4) \cdot \left[\sqrt{AC^2 \cdot [N_6^2 \cdot (N_3 + N_4)^2] + 4 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - AC \cdot \sqrt{[N_6 \cdot (N_3 + N_4)]^2} \right]} = 0$$

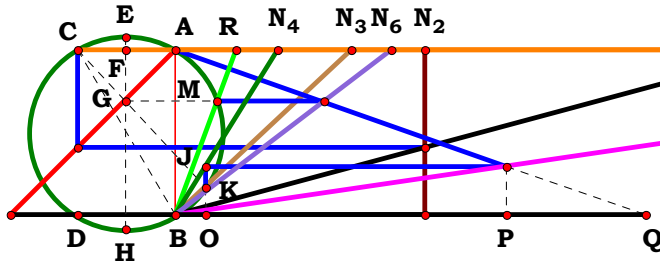
$$R - \frac{2 \cdot N_1 \cdot N_7 \cdot N_8 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D)} + E \cdot (C + D) \cdot (A - B) \right]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot N_u \cdot S \cdot Z \cdot j \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{G \cdot p \cdot \left[\sqrt{X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2 \cdot (S \cdot j - T \cdot h)^2 + 4 \cdot X \cdot S^2 \cdot V \cdot W \cdot j^2 \cdot k \cdot m \cdot n \cdot (U \cdot l + V \cdot k)} - 4 \cdot S^2 \cdot V^2 \cdot W^2 \cdot j^2 \cdot k^2 \cdot n^2 + X \cdot m \cdot (U \cdot l + V \cdot k) \cdot (T \cdot h - S \cdot j) \right]} = 0$$



$N_1 = 3.70706$ $N_4 = 0.61966$
 $N_2 = 1.50839$ $N_5 = 6.79942$
 $N_3 = 1.06757$ $N_6 = 1.30758$
 $R = 0.37110$

Unit. Given. $N_1 := 3.70706$ $N_2 := 1.50839$ $N_3 := 1.06757$
 $AB := 1$ $N_4 := .61966$ $N_5 := 6.79942$ $N_6 := 1.30758$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$
 $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

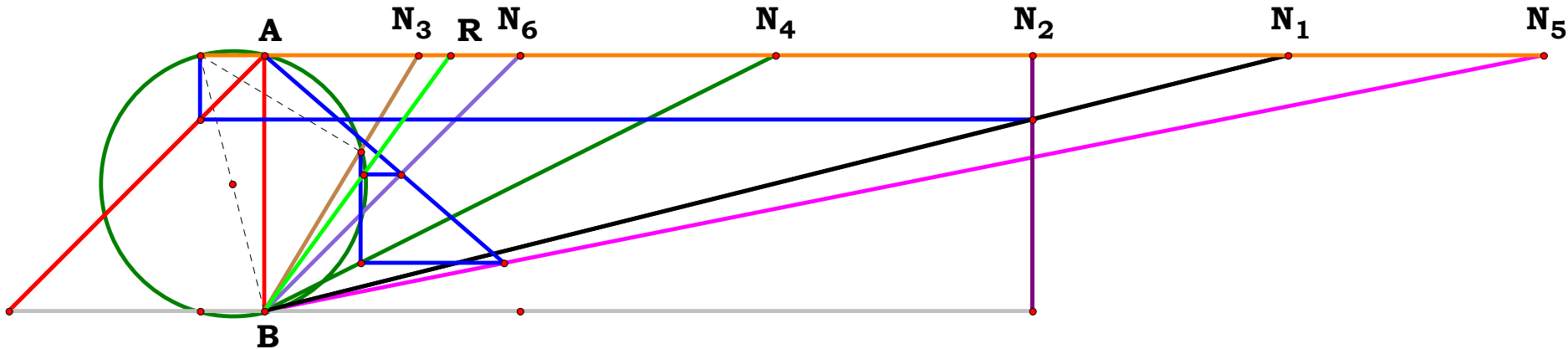
$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

$$R := \frac{GM - AF}{AB - FG} \quad R = 0.371102$$

Definitions.

$$\begin{aligned}
 &N_1^2 \cdot (N_1 - N_2) \cdot \left[N_6 \cdot \left[N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4) \right] - N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \right] \dots \\
 &+ -N_1^2 \cdot \sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot \left[N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4) \right]^2 + N_3^2 \cdot N_5^2 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)^2} \dots \\
 R - &\frac{\sqrt{+ -2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot \left(3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2 \right) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot \left[N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4) \right]}}{2 \cdot N_1 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot N_1^2} = 0
 \end{aligned}$$



$N_1 = 4.00000$ $N_4 = 2.00000$ $AB = 1.00000$ $EF = 0.01539$ $BO = 0.37500$ $FG = 0.46429$
 $N_2 = 3.00000$ $N_5 = 5.00000$ $AC = 0.25000$ $BN_3 = 1.16619$ $JO = 0.18750$ $EG = 0.47967$
 $N_3 = 0.60000$ $N_6 = 1.00000$ $EH = 1.03078$ $CN_3 = 0.85000$ $BP = 0.93750$ $GM = 0.51415$
 $R = 0.72641$ $AF = 0.12500$ $KN_3 = 0.43732$ $BQ = 1.15385$ $R - \frac{GM - AF}{AB - FG} = 0.00000$

Ames

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

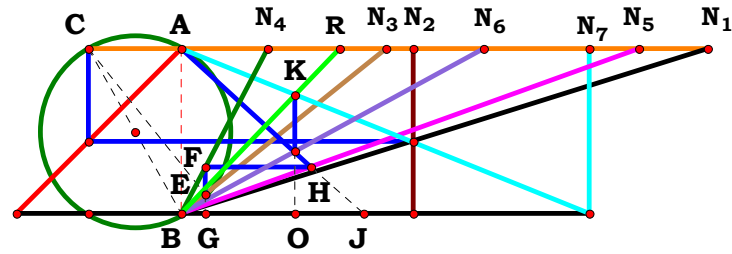
$$R - \frac{N_u^4 \cdot \sqrt{D^2 \cdot F^2 \cdot [B \cdot C + N_u \cdot (A - B)]^2 \cdot (A - B)^2 + (A - B)^2 \cdot [N_u \cdot D \cdot (A - B) - B \cdot C \cdot (C - D) - B \cdot N_u^2]^2 \cdot E^2 \dots} + [-2 \cdot F \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) \cdot [B \cdot C + N_u \cdot (A - B)] \cdot [N_u \cdot D \cdot (A - B) - B \cdot C \cdot (C - D) - B \cdot N_u^2] \cdot E \dots]}{2 \cdot B \cdot D \cdot F \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)} + \left[\begin{array}{l} N_u^6 \cdot B \cdot E \cdot (A - B) - N_u^5 \cdot D \cdot (A - B)^2 \cdot (E - F) \dots \\ + N_u^4 \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F) \cdot (A - B) \end{array} \right] = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{N_1^2 \cdot (N_1 - N_2) \cdot [N_6 \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)] - N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)] \dots + [-N_1^2 \cdot \sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)]^2 + N_3^2 \cdot N_5^2 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)^2 \dots} + [-2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)]]]}{2 \cdot N_1 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot N_1^2} = 0$$



4RST6AB1R10



$N_1 = 3.18403$ $N_3 = 1.24192$ $N_5 = 2.77013$ $N_7 = 2.46987$
 $N_2 = 1.40185$ $N_4 = 0.52280$ $N_6 = 1.83061$ $R = 0.95450$

Unit. $AB := 1$ Given. $N_1 := 3.18403$ $N_2 := 1.40185$ $N_3 := 1.24192$ $N_4 := .52280$

$N_5 := 2.77013$ $N_6 := 1.83061$ $N_7 := 2.46987$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$j := \frac{T}{N_1}$ $k := \frac{U}{N_2}$ $l := \frac{V}{N_3}$ $m := \frac{W}{N_4}$ $n := \frac{X}{N_5}$ $o := \frac{Y}{N_6}$ $p := \frac{Z}{N_7}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3}$$

$$FG := \frac{BG}{N_4} \quad FH := N_5 \cdot FG \quad BJ := \frac{FH}{(AB - FG)}$$

$$BO := \frac{N_6 \cdot BJ}{N_6 + BJ} \quad KO := \frac{N_7 - BO}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 0.954505$$

Definitions.

$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (AC \cdot N_3 - 1)}{N_3 \cdot N_5 \cdot N_6 - N_3 \cdot N_7 \cdot (N_5 - N_6) - N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) - AC \cdot N_3^2 \cdot [N_5 \cdot N_6 - N_7 \cdot (N_5 - N_6)]} = 0$$

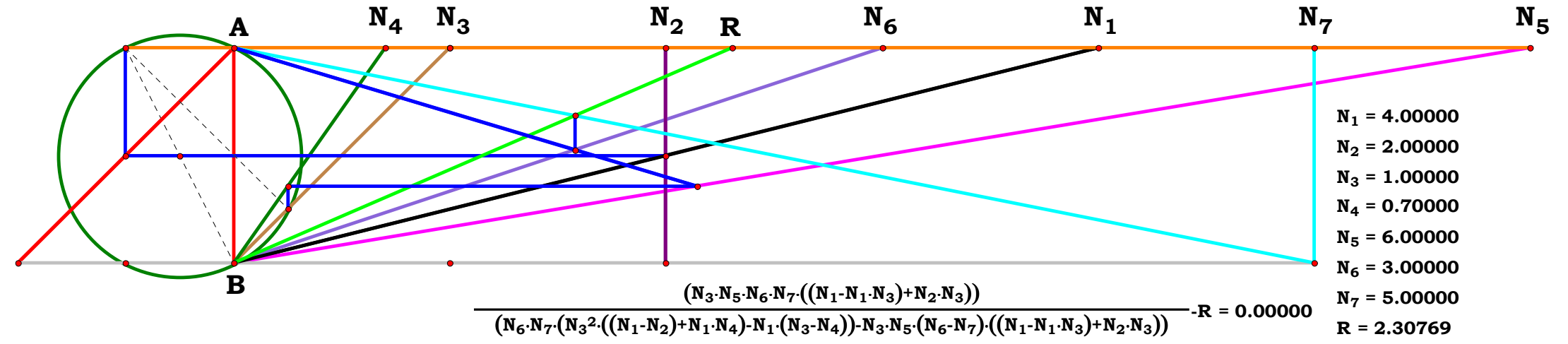
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}{N_6 \cdot N_7 \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)] - N_3 \cdot N_5 \cdot (N_6 - N_7) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{F \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + [B \cdot (C^2 + N_u^2) - B \cdot C \cdot D - D \cdot N_u \cdot (A - B)] \cdot E - G \cdot D \cdot [B \cdot C + N_u \cdot (A - B)]} = 0$$

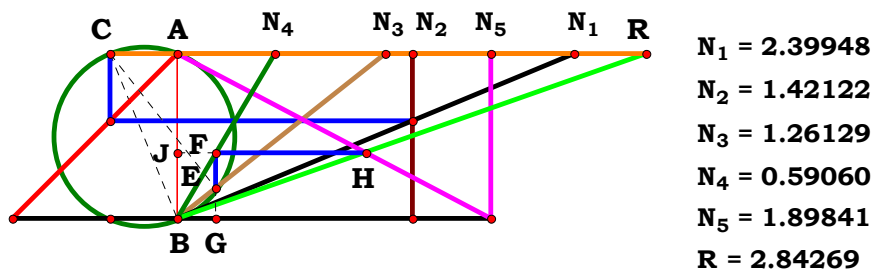
$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot m \cdot (U \cdot V \cdot j - T \cdot V \cdot k + T \cdot k \cdot l)}{W \cdot T \cdot Y \cdot Z \cdot k \cdot n \cdot (V^2 + l^2) + [X \cdot V \cdot m \cdot (Y \cdot p - Z \cdot o) \cdot (T \cdot V \cdot k - U \cdot V \cdot j - T \cdot k \cdot l) + V \cdot Y \cdot Z \cdot m \cdot n \cdot (T \cdot V \cdot k - U \cdot V \cdot j - T \cdot k \cdot l)]} = 0$$



$N_1 = 4.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.70000$
 $N_5 = 6.00000$
 $N_6 = 3.00000$
 $N_7 = 5.00000$
 $R = 2.30769$

$$\frac{(N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3))}{(N_6 \cdot N_7 \cdot (N_3^2 \cdot ((N_1 - N_2) + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)) - N_3 \cdot N_5 \cdot (N_6 - N_7) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3))} - R = 0.00000$$


$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2} \quad \mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC}$$

$$\mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3} \quad \mathbf{BG} := \frac{\mathbf{N}_3 \cdot (\mathbf{BN}_3 - \mathbf{EN}_3)}{\mathbf{BN}_3} \quad \mathbf{FG} := \frac{\mathbf{BG}}{\mathbf{N}_4}$$

$$\mathbf{HJ} := \mathbf{N}_5 \cdot (\mathbf{AB} - \mathbf{FG}) \quad \mathbf{R} := \frac{\mathbf{HJ}}{\mathbf{FG}} \quad \mathbf{R} = 2.842644$$

$$R - \frac{N_5 \cdot (N_3 - N_4 - N_3^2 \cdot N_4 - AC \cdot N_3^2)}{N_3 \cdot (AC \cdot N_3 - 1)} = 0$$

$$R - \frac{N_5 \cdot [N_1 \cdot N_4 \cdot (N_3^2 + 1) - N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)]}{N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u^3 - D \cdot N_u^2 \cdot (A - B) + B \cdot C \cdot N_u \cdot (C - D)}{D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{V}}{1} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{Y \cdot V \cdot Z \cdot m \cdot (X^2 + n^2) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot l - V \cdot m \cdot n)}{W \cdot X^2 \cdot l \cdot o \cdot p - V \cdot X^2 \cdot m \cdot o \cdot p + V \cdot X \cdot m \cdot n \cdot o \cdot p} = 0$$

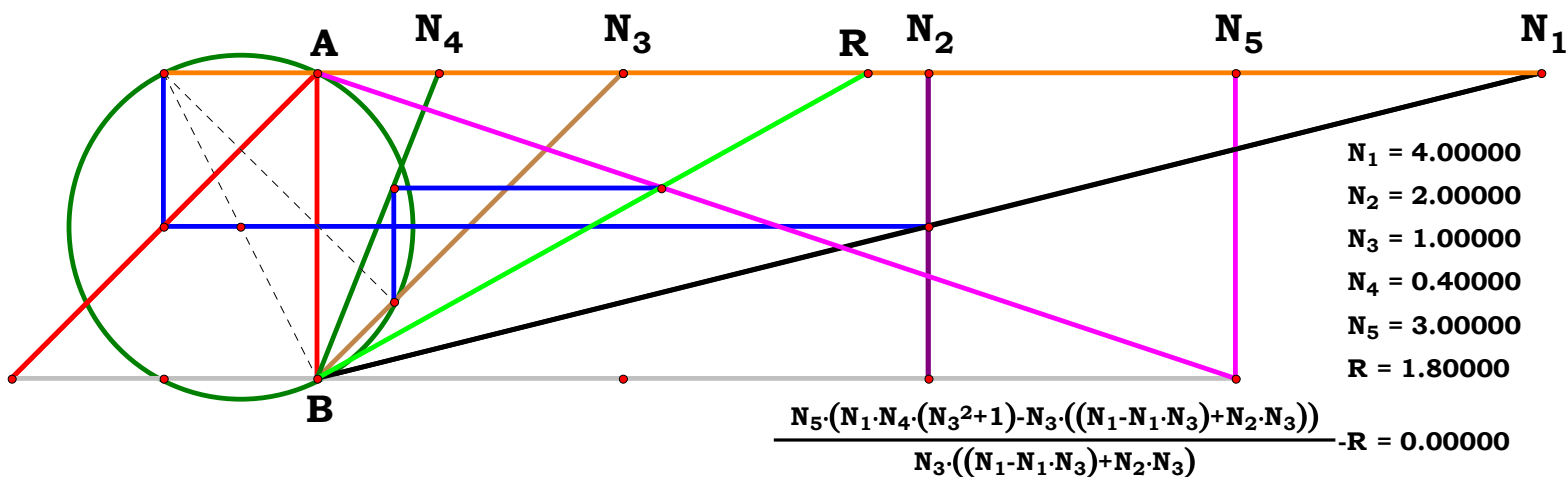
Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.26129$

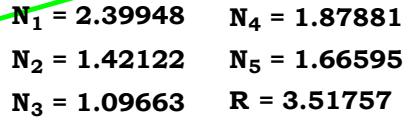
$$\mathbf{N}_4 := .59060 \quad \mathbf{N}_5 := 1.89841$$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{l} := \frac{\mathbf{V}}{N_1} \quad \mathbf{m} := \frac{\mathbf{W}}{N_2} \quad \mathbf{n} := \frac{\mathbf{X}}{N_3} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_4} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_5}$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$
$$\mathbf{V} := 17 \quad \mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{l} := \frac{\mathbf{V}}{\mathbf{N}_1} \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_2} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_3} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_4} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_5}$$
$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2} \quad \mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC}$$

$$\mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3} \quad \mathbf{EF} := \frac{(\mathbf{BN}_3 - \mathbf{EN}_3)}{\mathbf{BN}_3} \quad \mathbf{HG} := \frac{\mathbf{N}_5 \cdot \mathbf{N}_4}{\mathbf{N}_5 + \mathbf{N}_4}$$

$$\mathbf{R} := \frac{\mathbf{HG}}{\mathbf{EF}} \quad \mathbf{R} = 3.517552$$

$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot (1 - AC \cdot N_3)} = 0$$

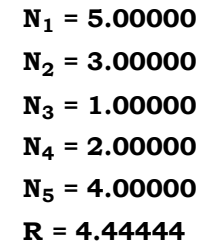
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

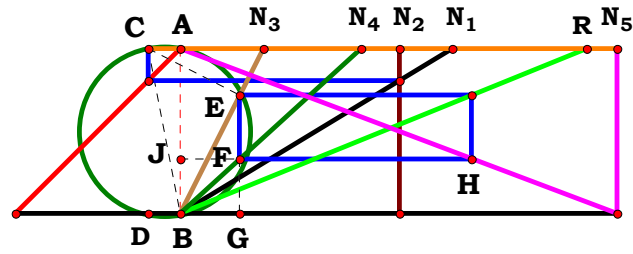
$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{V} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot (\mathbf{X}^2 + \mathbf{n}^2)}{\mathbf{n} \cdot (\mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{o}) \cdot (\mathbf{W} \cdot \mathbf{X} \cdot \mathbf{l} - \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m} + \mathbf{V} \cdot \mathbf{m} \cdot \mathbf{n})} = 0$$



$$\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)} \cdot R = 0.00000$$



$N_1 = 1.64399$
 $N_2 = 1.32436$
 $N_3 = 0.50580$
 $N_4 = 1.09426$
 $N_5 = 2.64422$
 $R = 2.46063$

Unit. $AB := 1$ Given. $N_1 := 1.64399$ $N_2 := 1.32436$ $N_3 := .50580$

$N_4 := 1.09426$ $N_5 := 2.64422$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG) \quad EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 2.460633$$

Definitions.

$$R - \frac{N_5 \cdot (N_3 - N_4 - N_3^2 \cdot N_4 - AC \cdot N_3^2)}{N_4 \cdot (AC \cdot N_3 - 1)} = 0$$

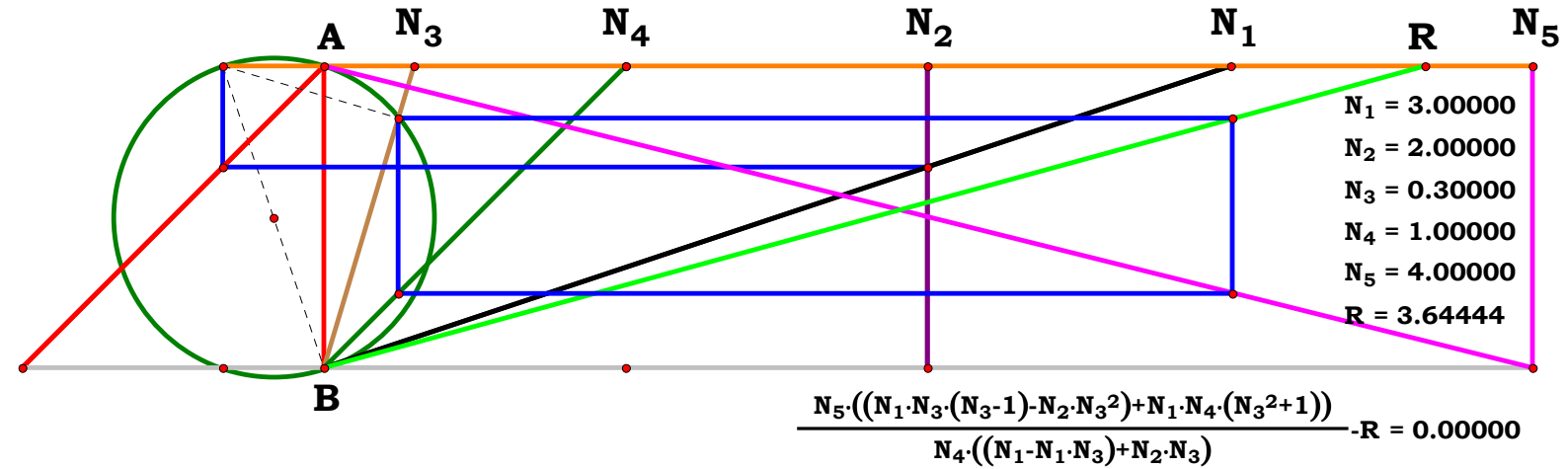
$$R - \frac{N_5 \cdot [N_1 \cdot N_3 \cdot (N_3 - 1) - N_2 \cdot N_3^2 + N_1 \cdot N_4 \cdot (N_3^2 + 1)]}{N_4 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [B \cdot N_u^2 - D \cdot N_u \cdot (A - B) + B \cdot C \cdot (C - D)]}{B \cdot C^2 \cdot E + C \cdot E \cdot N_u \cdot (A - B)} = 0$$

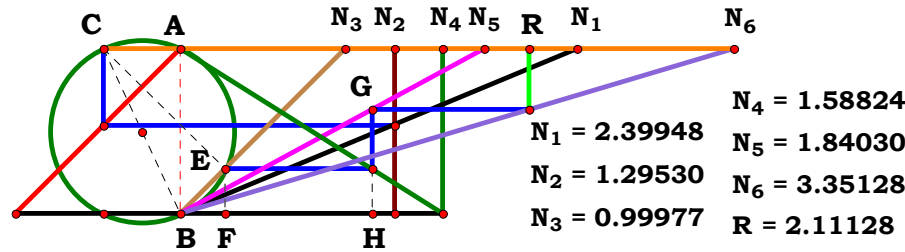
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot V \cdot Z \cdot m \cdot (X^2 + n^2) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot l - V \cdot m \cdot n)}{Y \cdot n \cdot p \cdot (W \cdot X \cdot l - V \cdot X \cdot m + V \cdot m \cdot n)} = 0$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.30000$
 $N_4 = 1.00000$
 $N_5 = 4.00000$
 $R = 3.64444$

$$\frac{N_5 \cdot ((N_1 \cdot N_3 \cdot (N_3 - 1) - N_2 \cdot N_3^2) + N_1 \cdot N_4 \cdot (N_3^2 + 1))}{N_4 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.29530$ $N_3 := .99977$
 $N_4 := 1.58824$ $N_5 := 1.84030$ $N_6 := 3.35128$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

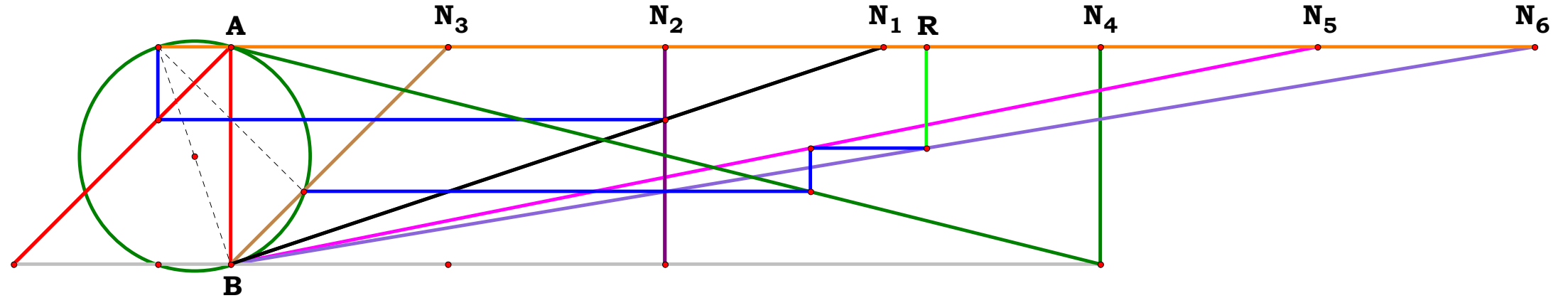
Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - EF)$$

$$GH := \frac{BH}{N_5} \quad R := N_6 \cdot GH \quad R = 2.111274$$



Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (AC + N_3)}{N_5 \cdot (N_3^2 + 1)} = 0$$

$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_1 - N_2 + N_1 \cdot N_3)}{N_1 \cdot N_5 \cdot (N_3^2 + 1)} = 0$$

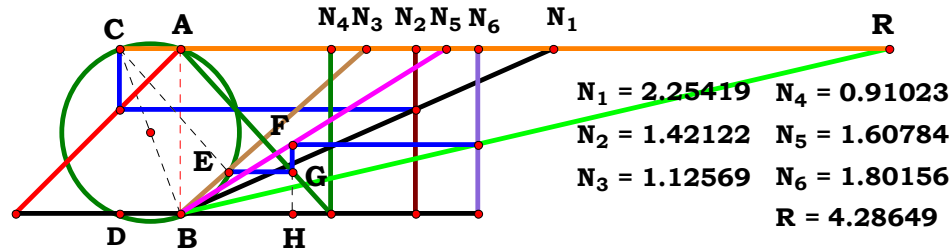
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{E \cdot N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)]}{F \cdot B \cdot D \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (U \cdot W \cdot l + U \cdot l \cdot m - V \cdot k \cdot m)}{p \cdot U \cdot Y \cdot l \cdot n \cdot (W^2 + m^2)} = 0$$

$$\frac{N_3 \cdot N_4 \cdot N_6 \cdot ((N_1 - N_2) + N_1 \cdot N_3)}{N_1 \cdot N_5 \cdot (N_3^2 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 1.42122$ $N_3 := 1.12569$

$N_4 := .91023$ $N_5 := 1.60784$ $N_6 := 1.80156$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad GH := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - GH)$$

$$FH := \frac{BH}{N_5} \quad R := \frac{N_6}{FH} \quad R = 4.28652$$

Definitions.

$$R - \frac{N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (AC + N_3)} = 0$$

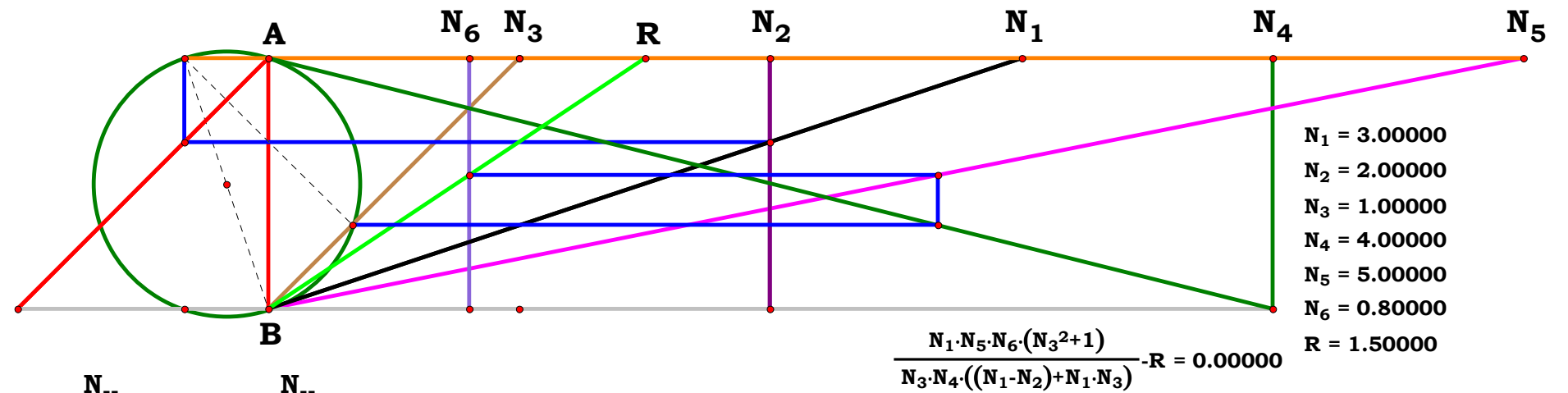
$$R - \frac{N_1 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_1 - N_2 + N_1 \cdot N_3)} = 0$$

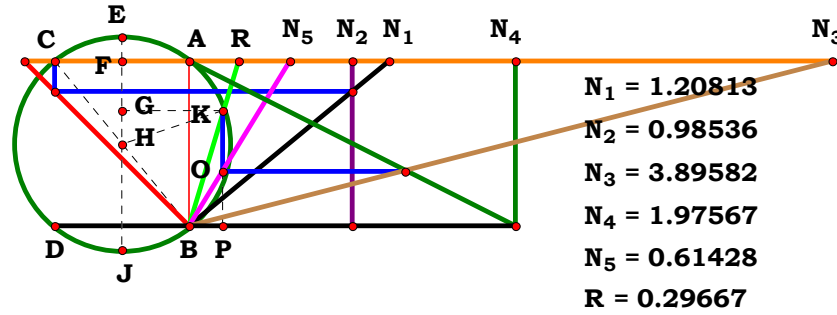
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{B \cdot D \cdot (C^2 + N_u^2)}{E \cdot F \cdot [B \cdot N_u - C \cdot (A - B)]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{U \cdot Y \cdot Z \cdot l \cdot n \cdot (W^2 + m^2)}{o \cdot p \cdot W \cdot X \cdot (U \cdot W \cdot l + U \cdot l \cdot m - V \cdot k \cdot m)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.20813$ $N_2 := .98536$ $N_3 := 3.89582$

$N_4 := 1.97567$ $N_5 := .61428$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

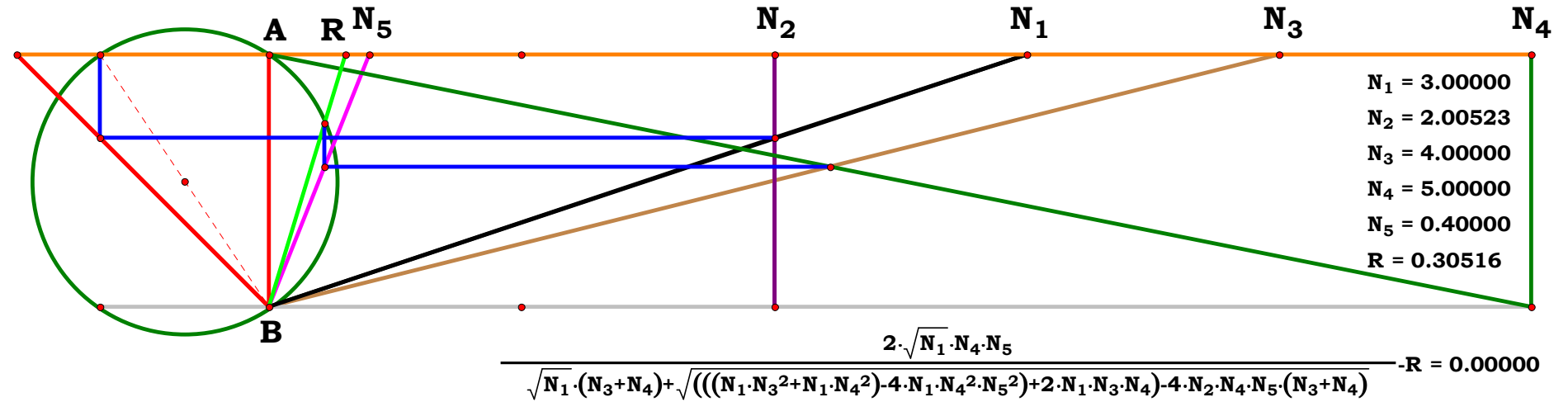
Descriptions.

$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := BP + AF \quad HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := \frac{AB}{2} + GH \quad R := \frac{BP}{KO} \quad R = 0.296676$$



Definitions.

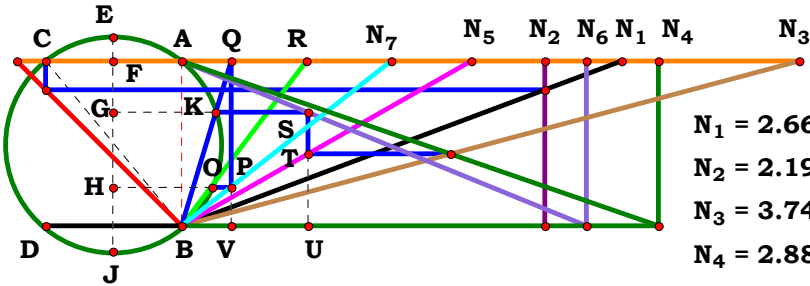
$$R - \frac{2 \cdot \sqrt{N_1 \cdot N_4 \cdot N_5}}{\sqrt{N_1 \cdot (N_3 + N_4)} + \sqrt{N_1 \cdot N_3^2 + N_1 \cdot N_4^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot (\sqrt{N_u})^3 \cdot \sqrt{B}}{\sqrt{N_u} \cdot [E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2] + \sqrt{N_u} \cdot \sqrt{B} \cdot E \cdot (C + D)}} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{V \cdot Y \cdot Z \cdot n \cdot \sqrt{1 \cdot m}}}{\sqrt{1 \cdot \sqrt{V \cdot m \cdot (X \cdot o \cdot p - 2 \cdot Y \cdot Z \cdot n + Y \cdot n \cdot p) \cdot (2 \cdot Y \cdot Z \cdot n + X \cdot o \cdot p + Y \cdot n \cdot p) - [4 \cdot W \cdot Y \cdot Z \cdot l \cdot n \cdot p \cdot (X \cdot o + Y \cdot n)]} + \sqrt{1 \cdot m} \cdot \sqrt{V \cdot p \cdot (X \cdot o + Y \cdot n)}}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 2.19608$ $N_3 := 3.74085$
 $N_4 := 2.88613$ $N_5 := 1.75720$ $N_6 := 2.45050$
 $N_7 := 1.27081$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$TU := \frac{N_4}{N_3 + N_4}$$

$$BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6}$$

$$GJ := SU + EF$$

$$GK := \sqrt{GJ \cdot (EJ - GJ)}$$

$$AQ := \frac{GK - AF}{SU}$$

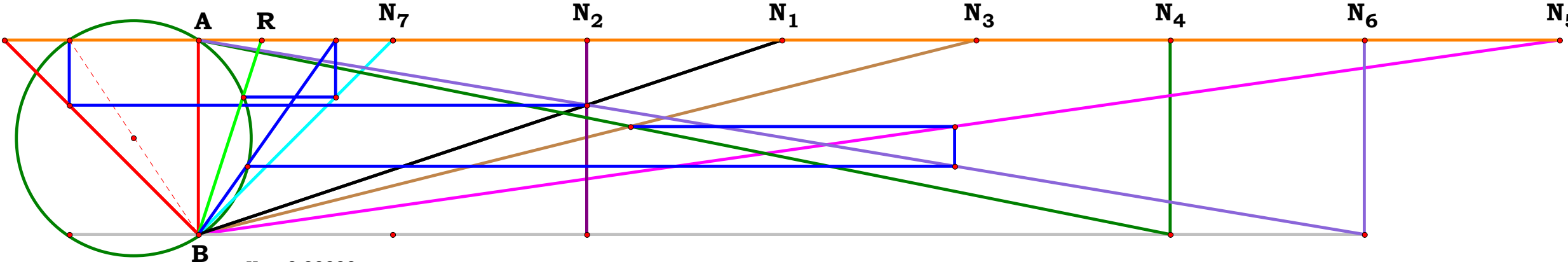
$$PV := \frac{AQ}{N_7}$$

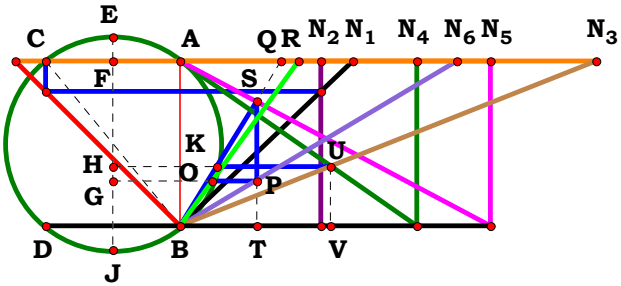
$$HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)}$$

$$R := \frac{HO - AF}{PV}$$

$$R = 0.757925$$





N₁ = 1.04347 N₅ = 1.88311
 N₂ = 0.84976 N₆ = 1.67564
 N₃ = 2.52044 R = 0.71485
 N₄ = 1.43327

Unit. AB := 1 Given. N₁ := 1.04347 N₂ := .84976 N₃ := 2.52044
 N₄ := 1.43327 N₅ := 1.88311 N₆ := 1.67564

Descriptions.

$$AC := \frac{N_2}{N_1} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

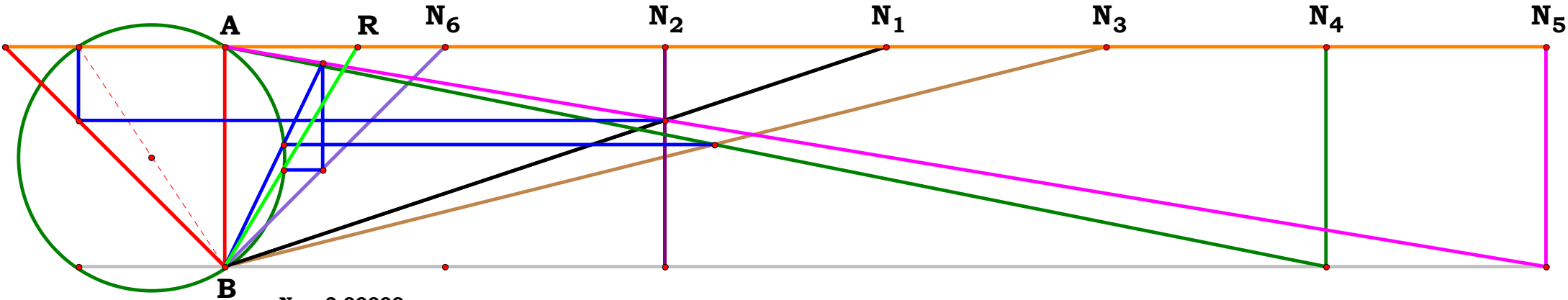
$$UV := \frac{N_4}{N_3 + N_4} \qquad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \qquad AQ := \frac{HK - AF}{UV}$$

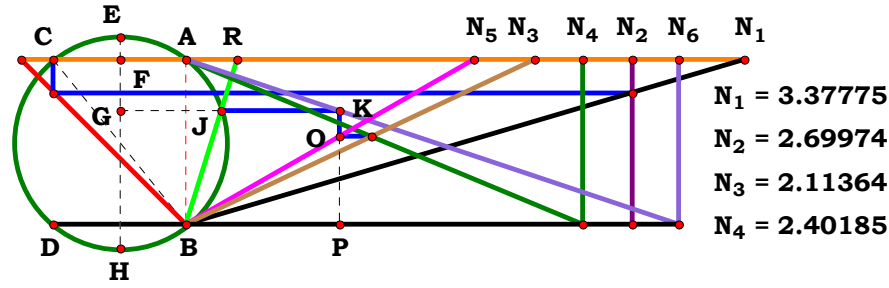
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \qquad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \qquad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \qquad R = 0.714844$$



N ₁ = 3.00000	N ₅ = 6.00000	AB = 1.00000	EF = 0.10093	AQ = 0.47703	GO = 0.59811
N ₂ = 2.00000	N ₆ = 1.00000	AC = 0.66667	UV = 0.55556	BT = 0.44190	R- $\frac{GO-AF}{PT}$ = 0.00000
N ₃ = 4.00000	R = 0.59918	EJ = 1.20185	HJ = 0.65648	PT = 0.44190	
N ₄ = 5.00000		AF = 0.33333	HK = 0.59835	GJ = 0.54282	



$$\begin{aligned} N_1 &= 3.37775 & N_5 &= 1.74751 \\ N_2 &= 2.69974 & N_6 &= 2.98322 \\ N_3 &= 2.11364 & R &= 0.30808 \\ N_4 &= 2.40185 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.37775 \quad N_2 := 2.69974 \quad N_3 := 2.11364$$

$$N_4 := 2.40185 \quad N_5 := 1.74751 \quad N_6 := 2.98322$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad EF := \frac{EH - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad KP := AB - \frac{BP}{N_6}$$

$$GH := KP + EF \quad GJ := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GJ - AF}{KP} \quad R = 0.308084$$

Definitions.

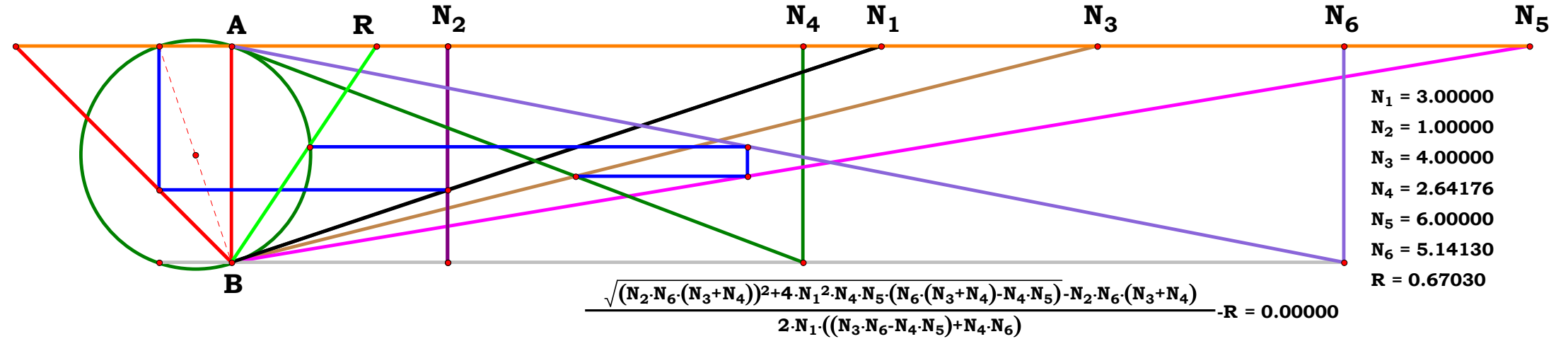
$$R - \frac{\sqrt{N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot [N_6 \cdot (N_3 + N_4) - N_4 \cdot N_5]} - N_2 \cdot N_6 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}{2 \cdot B \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot Y \cdot U^2 \cdot X \cdot Z \cdot l^2 \cdot m \cdot o \cdot p \cdot (W \cdot n + X \cdot m) + V^2 \cdot Z^2 \cdot k^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - 4 \cdot U^2 \cdot X^2 \cdot l^2 \cdot m^2 \cdot p^2 \cdot Y^2 - V \cdot Z \cdot k \cdot o \cdot (W \cdot n + X \cdot m)}}{2 \cdot U \cdot l \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$

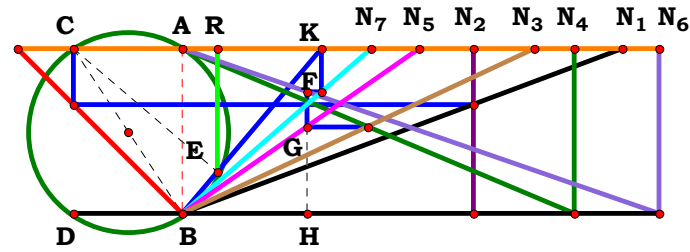


$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 1.00000 \\ N_3 &= 4.00000 \\ N_4 &= 2.64176 \\ N_5 &= 6.00000 \\ N_6 &= 5.14130 \\ R &= 0.67030 \end{aligned}$$

$$\frac{\sqrt{(N_2 \cdot N_6 \cdot (N_3 + N_4))^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot (N_6 \cdot (N_3 + N_4) - N_4 \cdot N_5)} - N_2 \cdot N_6 \cdot (N_3 + N_4)}{2 \cdot N_1 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$



4RST6AB2R4



$$\begin{aligned} N_1 &= 2.66100 & N_3 &= 2.13301 & N_5 &= 1.43757 & N_7 &= 1.14489 \\ N_2 &= 1.76022 & N_4 &= 2.37279 & N_6 &= 2.88636 & R &= 0.21754 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.66100 \quad N_2 := 1.76022 \quad N_3 := 2.13301 \quad N_4 := 2.37279$$

$$N_5 := 1.43757 \quad N_6 := 2.88636 \quad N_7 := 1.14489$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad GH := \frac{N_4}{N_3 + N_4} \quad BH := N_5 \cdot GH$$

$$FH := \frac{N_6 - BH}{N_6} \quad AK := N_7 \cdot FH$$

$$BK := \sqrt{AK^2 + AB^2} \quad CK := AK + AC$$

$$EK := \frac{AK \cdot CK}{BK} \quad R := AK \cdot \frac{(BK - EK)}{BK}$$

$$R = 0.217541$$

Definitions.

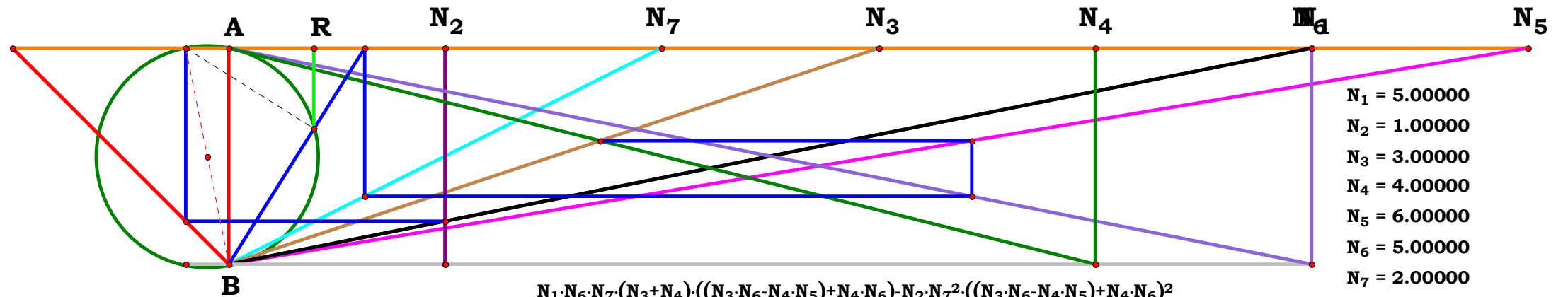
$$R - \frac{N_1 \cdot N_6 \cdot N_7 \cdot (N_3 + N_4) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_2 \cdot N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2}{N_1 \cdot [N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]}{E^2 \cdot B \cdot (G^2 + N_u^2) \cdot (C + D)^2 - 2 \cdot E \cdot B \cdot C \cdot F \cdot N_u^2 \cdot (C + D) + B \cdot C^2 \cdot F^2 \cdot N_u^2} = 0$$

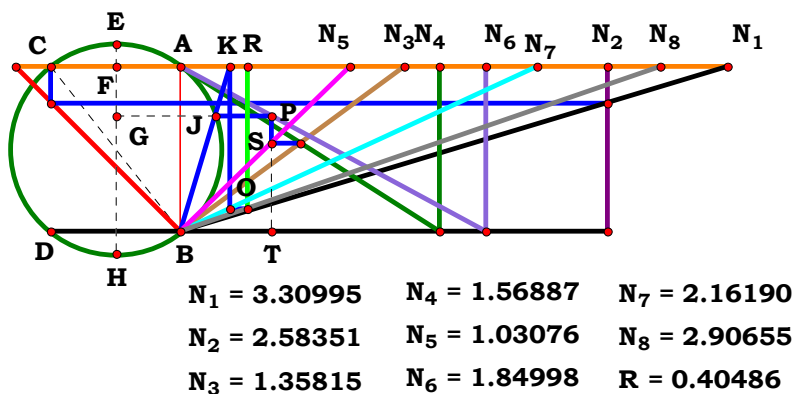
$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot [Y \cdot n \cdot (V \cdot m + W \cdot l) \cdot (T \cdot k \cdot p - U \cdot Z \cdot j) + U \cdot W \cdot X \cdot Z \cdot j \cdot l \cdot o]}{T \cdot k \cdot [Y^2 \cdot n^2 \cdot (Z^2 + p^2) \cdot (V \cdot m + W \cdot l)^2 - 2 \cdot Y \cdot W \cdot X \cdot Z^2 \cdot l \cdot n \cdot o \cdot (V \cdot m + W \cdot l) + W^2 \cdot X^2 \cdot Z^2 \cdot l^2 \cdot o^2]} = 0$$



$$\frac{N_1 \cdot N_6 \cdot N_7 \cdot (N_3 + N_4) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) - N_2 \cdot N_7^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)^2}{N_1 \cdot (N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)^2)} - R = 0.00000$$

$$\begin{aligned} N_1 &= 5.00000 \\ N_2 &= 1.00000 \\ N_3 &= 3.00000 \\ N_4 &= 4.00000 \\ N_5 &= 6.00000 \\ N_6 &= 5.00000 \\ N_7 &= 2.00000 \\ R &= 0.39391 \end{aligned}$$



Unit. $AB := 1$ Given. $N_1 := 3.30995$ $N_2 := 2.58351$ $N_3 := 1.35815$ $N_4 := 1.56887$
 $N_5 := 1.03076$ $N_6 := 1.84998$ $N_7 := 2.16190$ $N_8 := 2.90655$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$S := 20$ $T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4}$$

$$BT := N_5 \cdot ST \quad PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF \quad GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{(GJ - AF)}{PT} \quad KO := \frac{N_7 - AK}{N_7}$$

$$R := N_8 \cdot (AB - KO) \quad R = 0.404856$$

Definitions.

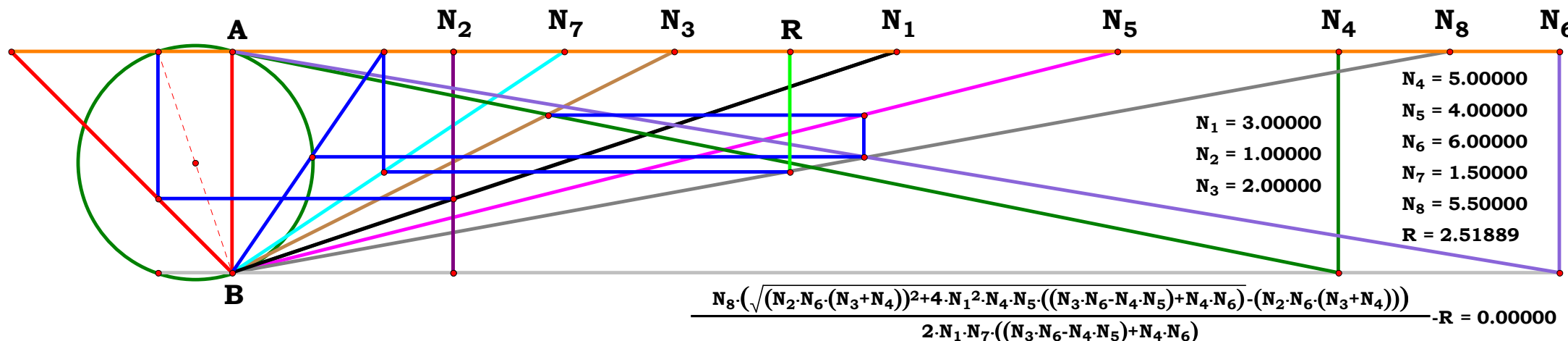
$$R - \frac{N_8 \cdot \left[\sqrt{N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_2 \cdot N_6 \cdot (N_3 + N_4) \right]}{2 \cdot N_1 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

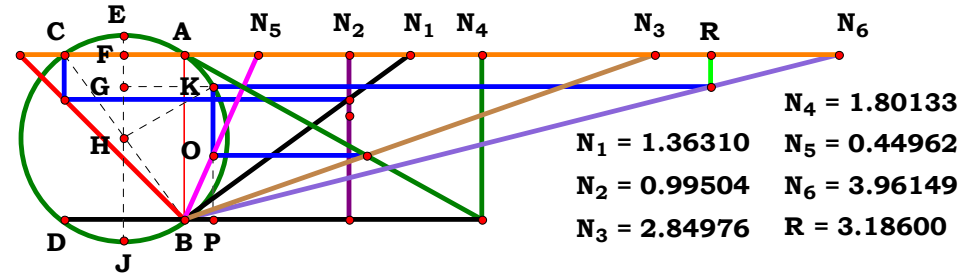
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[\sqrt{E^2 \cdot A^2 \cdot (C + D)^2 + 4 \cdot E \cdot B^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot B^2 \cdot C^2 \cdot F^2 - A \cdot E \cdot (C + D)} \right]}{2 \cdot B \cdot H \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot o \cdot \left[\sqrt{4 \cdot S^2 \cdot V \cdot W \cdot j^2 \cdot k \cdot n \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) + T^2 \cdot X^2 \cdot h^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2 - T \cdot X \cdot h \cdot m \cdot (U \cdot l + V \cdot k)} \right]}{2 \cdot S \cdot Y \cdot j \cdot p \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.36310$ $N_2 := .99504$ $N_3 := 2.84976$
 $N_4 := 1.80133$ $N_5 := .44962$ $N_6 := 3.96149$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$AC := \frac{N_2}{N_1}$ $EJ := \sqrt{AB^2 + AC^2}$ $AF := \frac{AC}{2}$

$EF := \frac{EJ - AB}{2}$ $HK := \frac{EJ}{2}$

$OP := \frac{N_4}{N_3 + N_4}$ $BP := N_5 \cdot OP$

$GK := AF + BP$ $GH := \sqrt{HK^2 - GK^2}$

$KP := GH + HK - EF$

$R := N_6 \cdot KP$ $R = 3.18599$

Definitions.

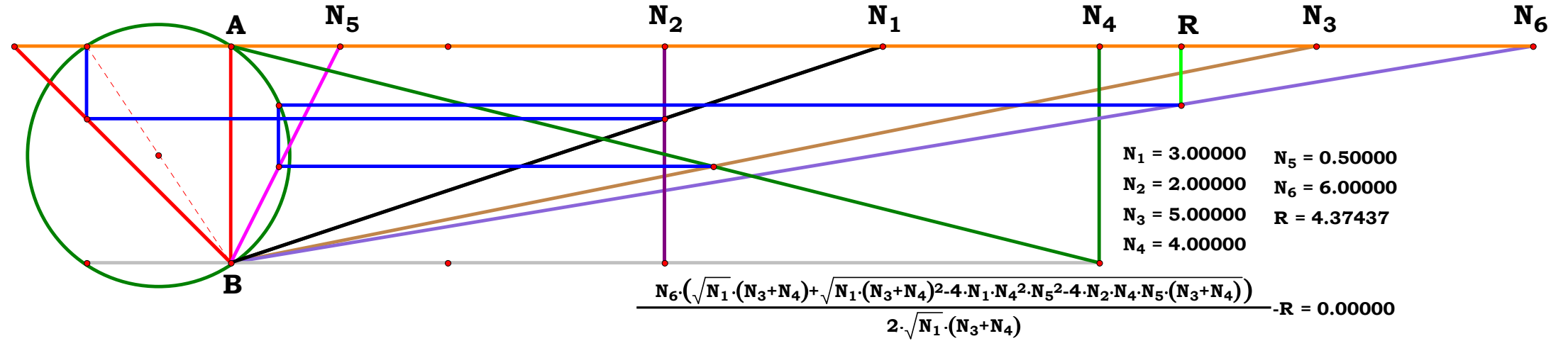
$$R - \frac{N_6 \cdot \left[\sqrt{N_1 \cdot (N_3 + N_4)} + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_1 \cdot N_4^2 \cdot N_5^2 - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)} \right]}{2 \cdot \sqrt{N_1 \cdot (N_3 + N_4)}} = 0$$

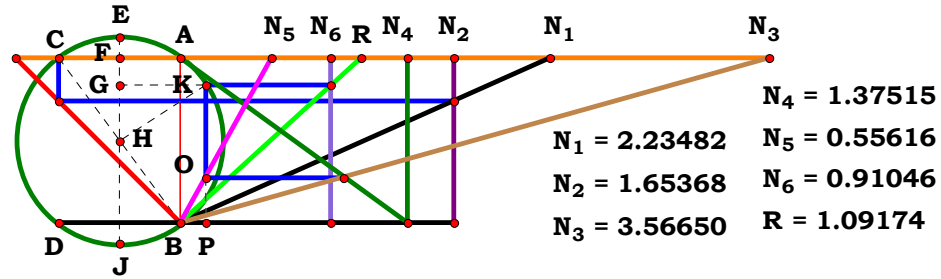
$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$ $N_6 - \frac{N_u}{F} = 0$

$$R - \frac{\sqrt{N_u} \cdot \left[\sqrt{-N_u} \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E}} = 0$$

$N_1 - \frac{U}{k} = 0$ $N_2 - \frac{V}{l} = 0$ $N_3 - \frac{W}{m} = 0$ $N_4 - \frac{X}{n} = 0$ $N_5 - \frac{Y}{o} = 0$ $N_6 - \frac{Z}{p} = 0$

$$R - \frac{Z \cdot \left[\sqrt{k} \cdot \sqrt{U \cdot l} \cdot (W \cdot n \cdot o - 2 \cdot X \cdot Y \cdot m + X \cdot m \cdot o) \cdot (2 \cdot X \cdot Y \cdot m + W \cdot n \cdot o + X \cdot m \cdot o) - 4 \cdot V \cdot X \cdot Y \cdot k \cdot m \cdot o \cdot (W \cdot n + X \cdot m) + \sqrt{k \cdot l} \cdot \sqrt{U \cdot o} \cdot (W \cdot n + X \cdot m) \right]}{2 \cdot \sqrt{U \cdot p} \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k \cdot l} \cdot o} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.23482$ $N_2 := 1.65368$ $N_3 := 3.56650$

$N_4 := 1.37515$ $N_5 := .55616$ $N_6 := .91046$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

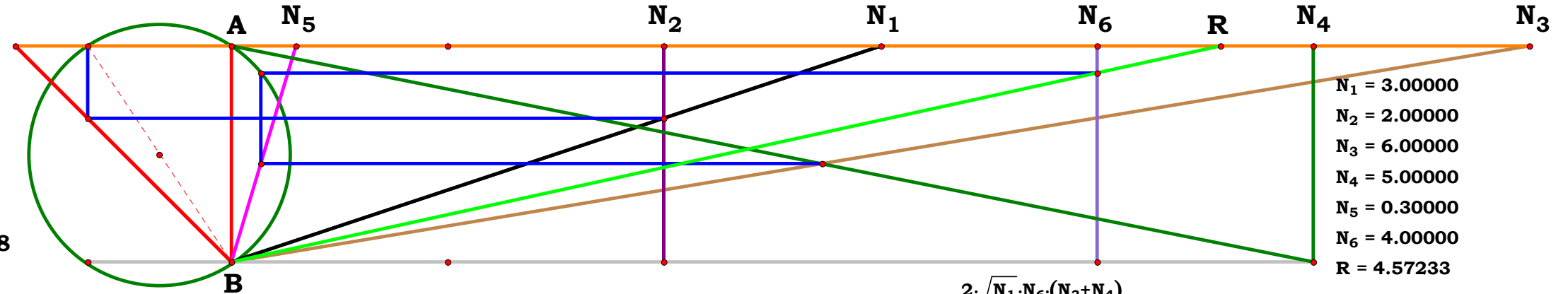
$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := AF + BP \quad GH := \sqrt{HK^2 - GK^2}$$

$$KP := GH + HK - EF \quad R := \frac{N_6}{KP} \quad R = 1.091738$$



Definitions.

$$R - \frac{2 \cdot \sqrt{N_1} \cdot N_6 \cdot (N_3 + N_4)}{\sqrt{N_1} \cdot (N_3 + N_4) + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot [N_2 \cdot (N_3 + N_4) + N_1 \cdot N_4 \cdot N_5]}} = 0$$

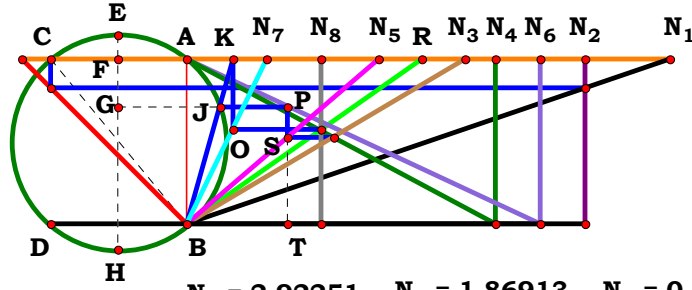
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2 \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{U} \cdot Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k} \cdot l}{p \cdot \left[\sqrt{k} \cdot \sqrt{U \cdot l \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - 4 \cdot U \cdot X^2 \cdot l \cdot m^2 \cdot Y^2 - 4 \cdot Y \cdot V \cdot X \cdot k \cdot m \cdot o \cdot (W \cdot n + X \cdot m)} + \sqrt{k} \cdot l \cdot \sqrt{U} \cdot o \cdot (W \cdot n + X \cdot m) \right]} = 0$$

$$\frac{2 \cdot \sqrt{N_1} \cdot N_6 \cdot (N_3 + N_4)}{\sqrt{N_1} \cdot (N_3 + N_4) + \sqrt{N_1 \cdot (N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot (N_3 + N_4) + N_1 \cdot N_4 \cdot N_5)}} - R = 0.00000$$



Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT} \quad KO := \frac{N_7 - AK}{N_7}$$

$$R := \frac{N_8}{AB - KO} \quad R = 1.420686$$

Definitions.

$$R - \frac{2 \cdot N_1 \cdot N_7 \cdot N_8 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_1^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_2 \cdot N_6 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{G \cdot H \cdot \left[\sqrt{E^2 \cdot A^2 \cdot (C + D)^2 + 4 \cdot E \cdot B^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot B^2 \cdot C^2 \cdot F^2} - A \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

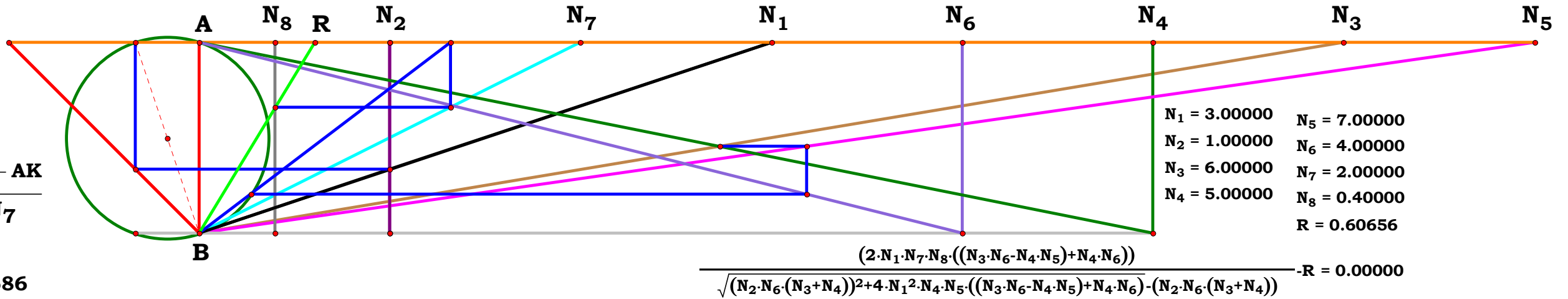
$$R - \frac{2 \cdot S \cdot Y \cdot Z \cdot j \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{o \cdot p \cdot \left[\sqrt{4 \cdot S^2 \cdot V \cdot W \cdot j^2 \cdot k \cdot n \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) + T^2 \cdot X^2 \cdot h^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - T \cdot X \cdot h \cdot m \cdot (U \cdot l + V \cdot k) \right]} = 0$$

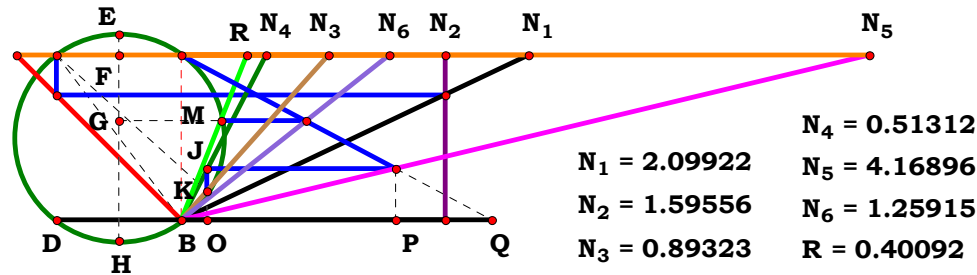
Unit. $AB := 1$ Given. $N_1 := 2.92251$ $N_2 := 2.40917$ $N_3 := 1.68746$ $N_4 := 1.86913$
 $N_5 := 1.16636$ $N_6 := 2.14056$ $N_7 := .48626$ $N_8 := .81709$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$





Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.59556$ $N_3 := .89323$
 $N_4 := .51312$ $N_5 := 4.16896$ $N_6 := 1.25915$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$AC := \frac{N_2}{N_1}$ $EH := \sqrt{AB^2 + AC^2}$

$AF := \frac{AC}{2}$ $EF := \frac{EH - AB}{2}$

$BN_3 := \sqrt{N_3^2 + AB^2}$ $CN_3 := N_3 + AC$

$KN_3 := \frac{N_3 \cdot CN_3}{BN_3}$ $BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$

$JO := \frac{BO}{N_4}$ $BP := N_5 \cdot JO$

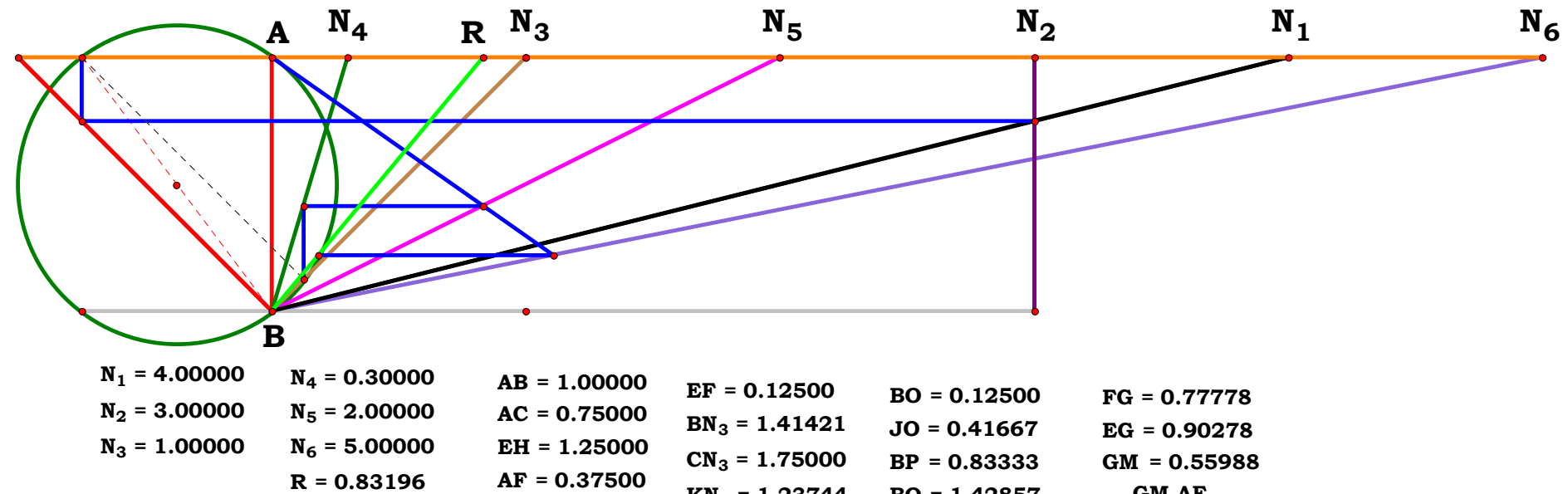
$BQ := \frac{BP \cdot AB}{AB - JO}$ $FG := \frac{N_6}{BQ + N_6}$

$EG := FG + EF$ $GM := \sqrt{EG \cdot (EH - EG)}$

$R := \frac{GM - AF}{AB - FG}$ $R = 0.400923$

Definitions.

$$R - \frac{\sqrt{N_1^2 \cdot N_2^2 \cdot N_4^2 \cdot N_6^2 \cdot (N_3^2 + 1)^2 - N_3^2 \cdot (N_1 - N_2 \cdot N_3)^2 \cdot [2 \cdot N_5 \cdot N_6 \cdot (2 \cdot N_1^2 + N_2^2) - N_2^2 \cdot (N_5^2 + N_6^2)]} \dots \cdot N_1^2 \dots}{2 \cdot N_1 \cdot N_3 \cdot N_5 \cdot (N_1 - N_2 \cdot N_3) \cdot \sqrt{N_1^4}} = 0$$

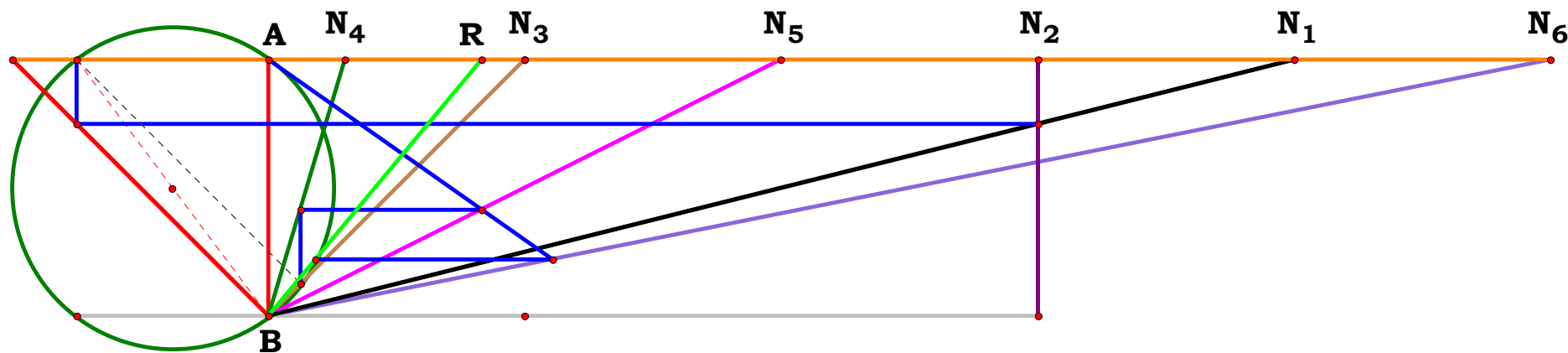


$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{F} \cdot \mathbf{D} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{B} \cdot \mathbf{C}^2 - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}) - \sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{B} \cdot \mathbf{C}^2 - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{F}^2 \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2 \dots + 2 \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{A}^2 + 2 \cdot \mathbf{B}^2) \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{B} \cdot \mathbf{C}^2 - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}})}}{2 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{F} \cdot (\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{C})} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{U}}{\mathbf{k}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{V}}{\mathbf{l}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_6 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

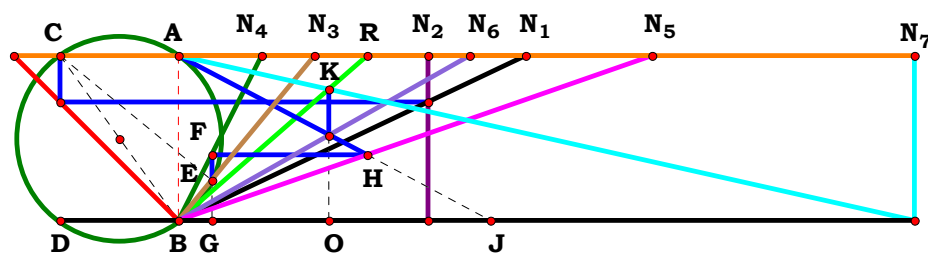
$$\mathbf{R} - \frac{\sqrt{\mathbf{X}^2 \cdot \mathbf{U}^2 \cdot \mathbf{V}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{k}^2 \cdot \mathbf{l}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{W}^2 + \mathbf{m}^2)^2 \dots + 2 \cdot \mathbf{X} \cdot \mathbf{U} \cdot \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{l} \cdot \mathbf{n} \cdot \mathbf{o} \cdot (\mathbf{W}^2 + \mathbf{m}^2) \cdot (\mathbf{U} \cdot \mathbf{l} \cdot \mathbf{m} - \mathbf{V} \cdot \mathbf{W} \cdot \mathbf{k}) \cdot (2 \cdot \mathbf{U}^2 \cdot \mathbf{Y} \cdot \mathbf{l}^2 \cdot \mathbf{p} + \mathbf{V}^2 \cdot \mathbf{Y} \cdot \mathbf{k}^2 \cdot \mathbf{p} - \mathbf{V}^2 \cdot \mathbf{Z} \cdot \mathbf{k}^2 \cdot \mathbf{o}) \dots + -\mathbf{W}^2 \cdot \mathbf{n}^2 \cdot (\mathbf{U} \cdot \mathbf{l} \cdot \mathbf{m} - \mathbf{V} \cdot \mathbf{W} \cdot \mathbf{k})^2 \cdot (4 \cdot \mathbf{U}^2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{l}^2 \cdot \mathbf{o} \cdot \mathbf{p} - \mathbf{V}^2 \cdot \mathbf{Y}^2 \cdot \mathbf{k}^2 \cdot \mathbf{p}^2 + 2 \cdot \mathbf{V}^2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{k}^2 \cdot \mathbf{o} \cdot \mathbf{p} - \mathbf{V}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{k}^2 \cdot \mathbf{o}^2)}}{2 \cdot \mathbf{U} \cdot \mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{l} \cdot \mathbf{n} \cdot \mathbf{p} \cdot (\mathbf{U} \cdot \mathbf{l} \cdot \mathbf{m} - \mathbf{V} \cdot \mathbf{W} \cdot \mathbf{k})} - \mathbf{V} \cdot \mathbf{k} \cdot \left[\mathbf{U} \cdot \mathbf{l} \cdot \left[\mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{W}^2 + \mathbf{m}^2) \dots + \mathbf{W} \cdot \mathbf{m} \cdot \mathbf{n} \cdot (\mathbf{Y} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{o}) \right] \dots \right] = 0$$



N₁ = 4.00000	N₄ = 0.30000	AB = 1.00000	EF = 0.12500	BO = 0.12500	FG = 0.77778
N₂ = 3.00000	N₅ = 2.00000	AC = 0.75000	BN₃ = 1.41421	JO = 0.41667	EG = 0.90278
N₃ = 1.00000	N₆ = 5.00000	EH = 1.25000	CN₃ = 1.75000	BP = 0.83333	GM = 0.55988
	R = 0.83196	AF = 0.37500	KN₃ = 1.23744	BQ = 1.42857	R-$\frac{GM-AF}{AB-FG}$ = 0.00000



4RST6AB2R10



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := .82543$ $N_4 := .50343$

$N_5 := 2.87106$ $N_6 := 1.76281$ $N_7 := 4.45743$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$j := \frac{T}{N_1}$ $k := \frac{U}{N_2}$ $l := \frac{V}{N_3}$ $m := \frac{W}{N_4}$ $n := \frac{X}{N_5}$ $o := \frac{Y}{N_6}$ $p := \frac{Z}{N_7}$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

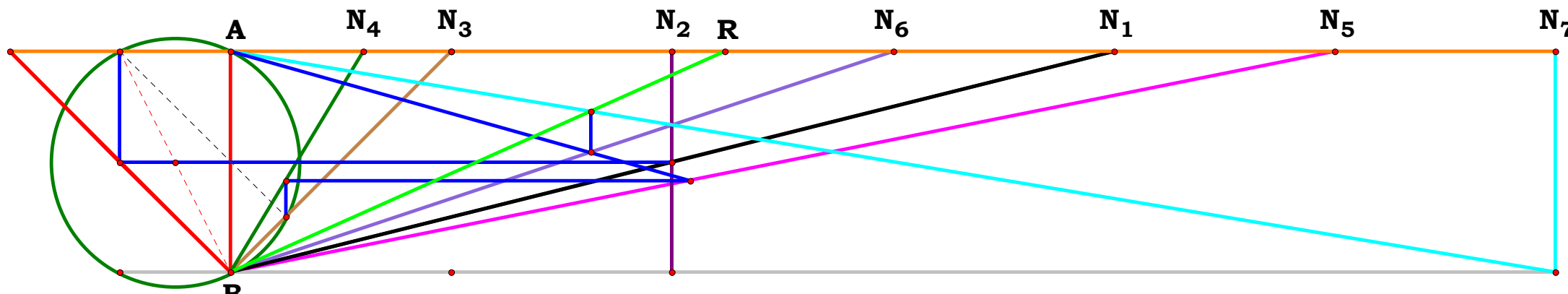
$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$FH := N_5 \cdot FG \quad BJ := \frac{FH}{(AB - FG)}$$

$$BO := \frac{N_6 \cdot BJ}{N_6 + BJ} \quad KO := \frac{N_7 - BO}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 1.146228$$



$N_1 = 4.00000$ $N_5 = 5.00000$
 $N_2 = 2.00000$ $N_6 = 3.00000$
 $N_3 = 1.00000$ $N_7 = 6.00000$
 $N_4 = 0.60000$ $R = 2.23881$

$$\frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_1 - N_2 \cdot N_3)}{N_6 \cdot N_7 \cdot (N_1 \cdot N_4 \cdot (N_3^2 + 1) - N_3 \cdot (N_1 - N_2 \cdot N_3)) - N_3 \cdot N_5 \cdot (N_6 - N_7) \cdot (N_1 - N_2 \cdot N_3)} \cdot R = 0.00000$$

Definitions.

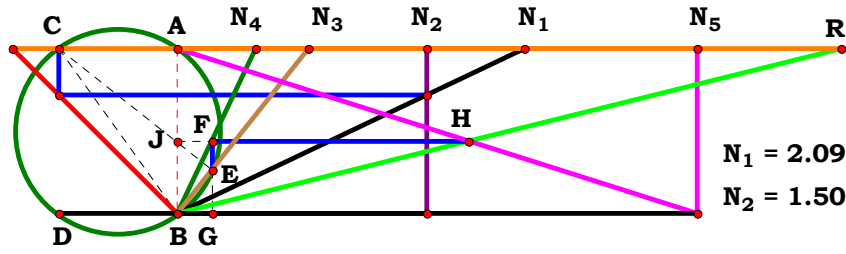
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_1 - N_2 \cdot N_3)}{N_6 \cdot N_7 \cdot [N_1 \cdot N_4 \cdot (N_3^2 + 1) - N_3 \cdot (N_1 - N_2 \cdot N_3)] - N_3 \cdot N_5 \cdot (N_6 - N_7) \cdot (N_1 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot N_u \cdot (B \cdot C - A \cdot N_u)}{E \cdot [B \cdot C \cdot (C - D) + N_u \cdot (A \cdot D + B \cdot N_u)] + D \cdot (F - G) \cdot (B \cdot C - A \cdot N_u)} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot m \cdot (T \cdot k \cdot l - U \cdot V \cdot j)}{W \cdot T \cdot Y \cdot Z \cdot k \cdot n \cdot (V^2 + l^2) + V \cdot m \cdot (X \cdot Y \cdot p - X \cdot Z \cdot o + Y \cdot Z \cdot n) \cdot (U \cdot V \cdot j - T \cdot k \cdot l)} = 0$$



$$\begin{aligned} N_3 &= 0.79637 \\ N_4 &= 0.47437 \\ N_1 &= 2.09922 \\ N_2 &= 1.50839 \\ N_5 &= 3.15195 \\ R &= 4.02072 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.09922 \quad N_2 := 1.50839 \quad N_3 := .79637$$

$$N_4 := .47437 \quad N_5 := 3.15195$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

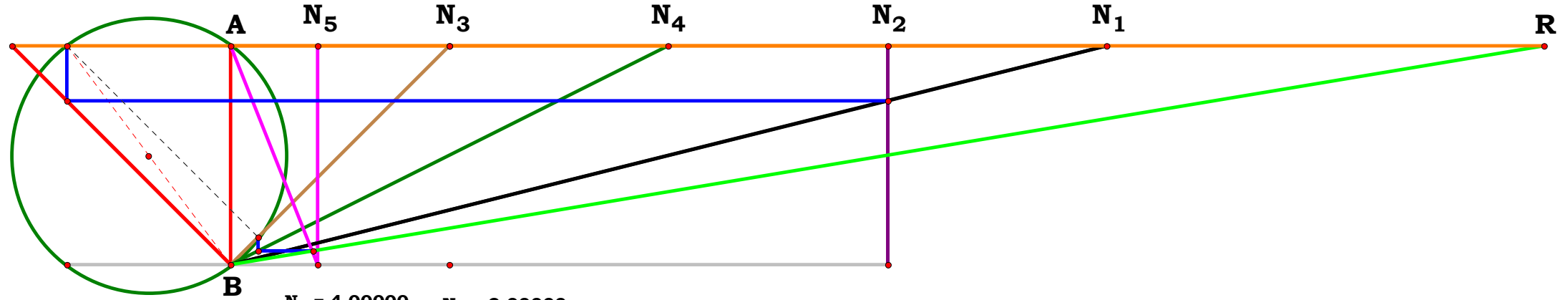
Descriptions.

$$AC := \frac{N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3}$$

$$FG := \frac{BG}{N_4} \quad HJ := N_5 \cdot (AB - FG)$$

$$R := \frac{HJ}{FG} \quad R = 4.02067$$



$$\begin{aligned} N_1 &= 4.00000 & N_4 &= 2.00000 \\ N_2 &= 3.00000 & N_5 &= 0.40000 \\ N_3 &= 1.00000 & R &= 6.00000 \end{aligned}$$

$$\frac{N_3^2 \cdot N_5 \cdot (N_2 + N_1 \cdot N_4) - N_1 \cdot N_5 \cdot (N_3 - N_4)}{N_3 \cdot (N_1 - N_2 \cdot N_3)} \cdot R = 0.00000$$

Definitions.

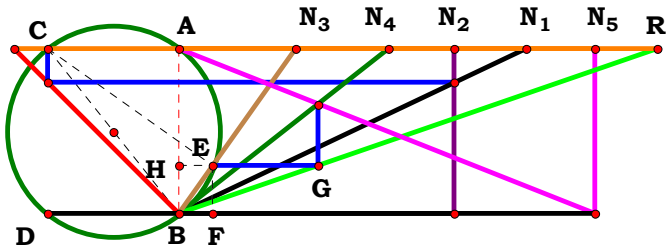
$$R - \frac{N_3^2 \cdot N_5 \cdot (N_2 + N_1 \cdot N_4) - N_1 \cdot N_5 \cdot (N_3 - N_4)}{N_3 \cdot (N_1 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [B \cdot C \cdot (C - D) + B \cdot N_u^2 + A \cdot D \cdot N_u]}{D \cdot E \cdot (B \cdot C - A \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot X^2 \cdot Y \cdot m + V \cdot Y \cdot m \cdot n^2 + W \cdot X^2 \cdot l \cdot o - V \cdot X \cdot m \cdot n \cdot o)}{X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l)} = 0$$



$N_1 = 2.09922$
 $N_2 = 1.66336$
 $N_3 = 0.70920$
 $N_4 = 1.26861$
 $N_5 = 2.52237$
 $R = 2.89606$

Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.66336$ $N_3 := .70920$
 $N_4 := 1.26861$ $N_5 := 2.52237$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

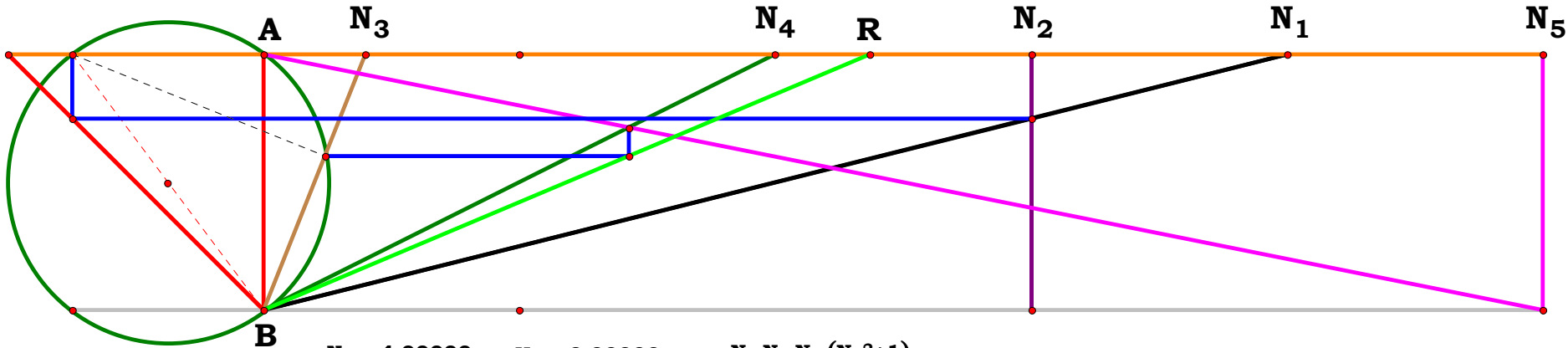
Descriptions.

$$AC := \frac{N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{(BN_3 - EN_3)}{BN_3} \quad HG := \frac{N_5 \cdot N_4}{N_5 + N_4}$$

$$R := \frac{HG}{EF} \quad R = 2.896074$$



$N_1 = 4.00000$ $N_4 = 2.00000$ $\frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_1 \cdot N_2 \cdot N_3) \cdot (N_4 + N_5)} - R = 0.00000$
 $N_2 = 3.00000$ $N_5 = 5.00000$
 $N_3 = 0.40000$ $R = 2.36735$

Definitions.

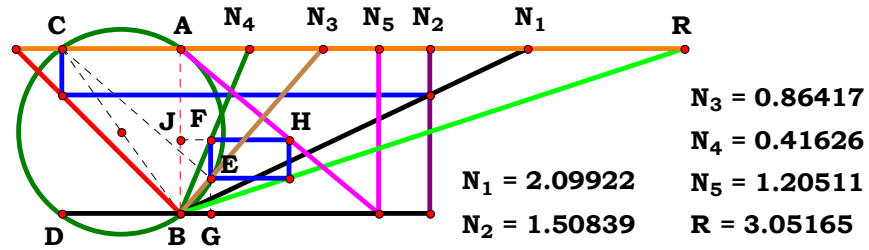
$$R - \frac{N_1 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_1 - N_2 \cdot N_3) \cdot (N_4 + N_5)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot (D + E) \cdot (B \cdot C - A \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot m \cdot (X^2 + n^2)}{n \cdot (V \cdot m \cdot n - W \cdot X \cdot l) \cdot (Y \cdot p + Z \cdot o)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := .86417$

$N_4 := .41626$ $N_5 := 1.20511$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

$$AC := \frac{N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG) \quad EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 3.051666$$

Definitions.

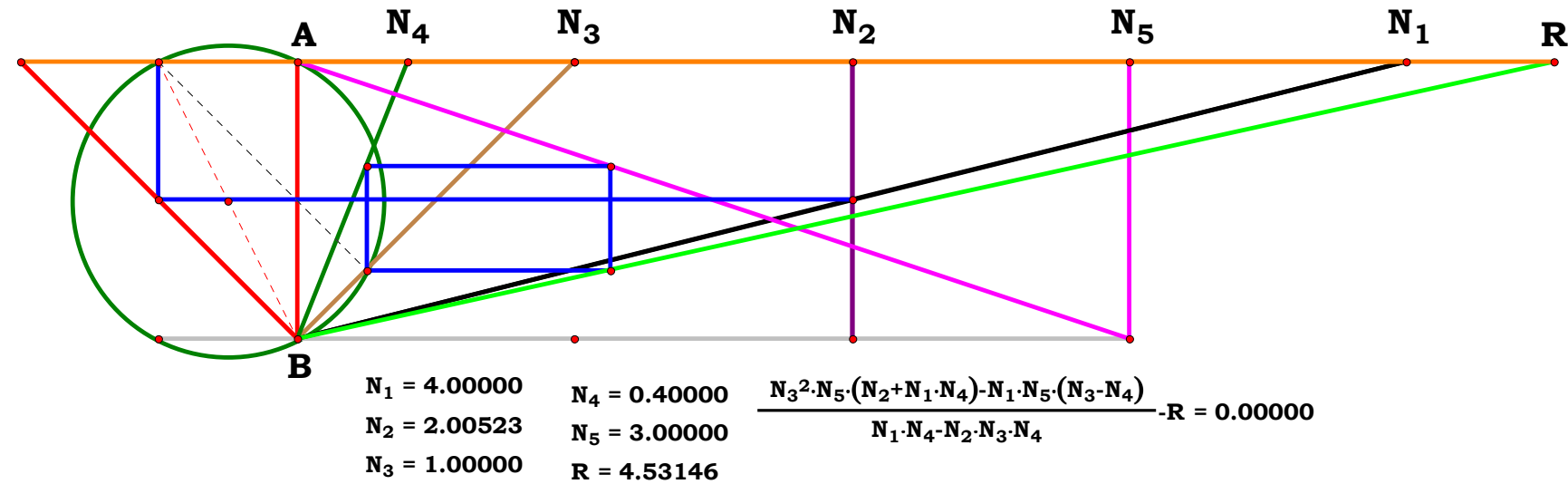
$$R - \frac{N_3^2 \cdot N_5 \cdot (N_2 + N_1 \cdot N_4) - N_1 \cdot N_5 \cdot (N_3 - N_4)}{N_1 \cdot N_4 - N_2 \cdot N_3 \cdot N_4} = 0$$

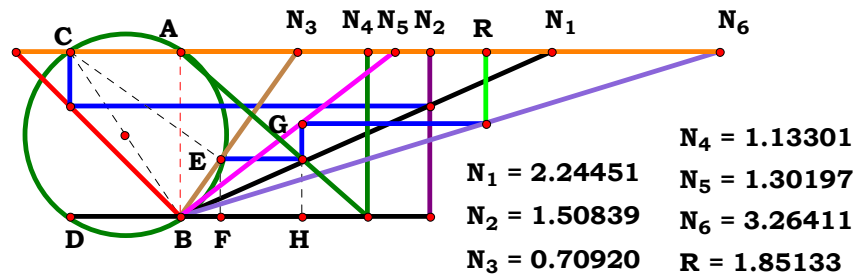
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u)}{C \cdot E \cdot (B \cdot C - A \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [V \cdot Y \cdot m \cdot (X^2 + n^2) + X \cdot o \cdot (W \cdot X \cdot l - V \cdot m \cdot n)]}{V \cdot Y \cdot m \cdot n^2 \cdot p - W \cdot X \cdot Y \cdot l \cdot n \cdot p} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.24451$ $N_2 := 1.50839$ $N_3 := .70920$
 $N_4 := 1.13301$ $N_5 := 1.30197$ $N_6 := 3.26411$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - EF)$$

$$GH := \frac{BH}{N_5} \quad R := N_6 \cdot GH$$

$$R = 1.851336$$

Definitions.

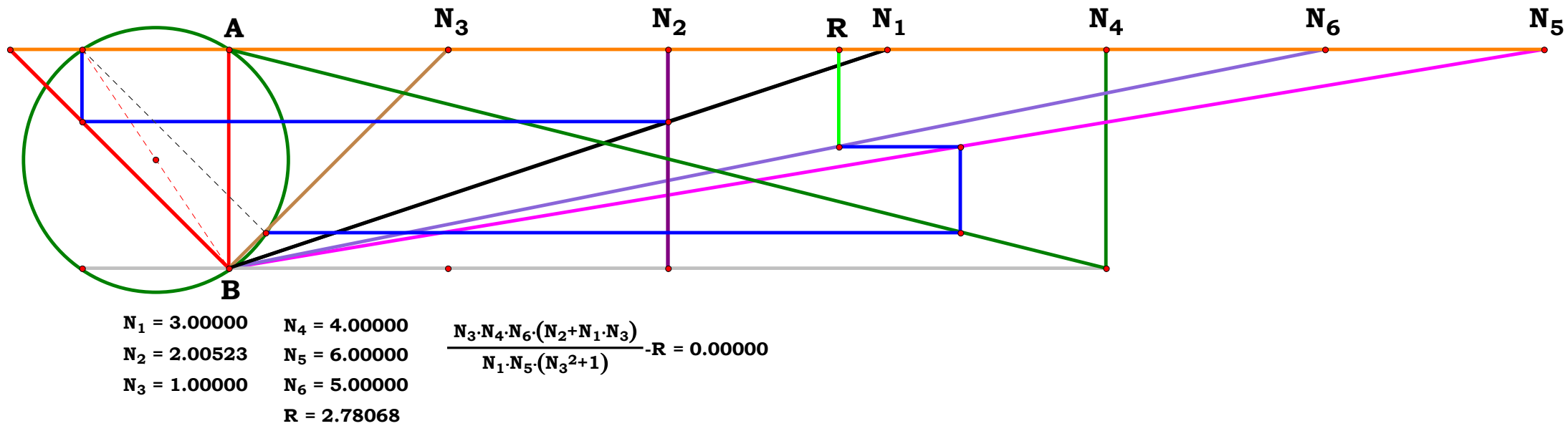
$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_2 + N_1 \cdot N_3)}{N_1 \cdot N_5 \cdot (N_3^2 + 1)} = 0$$

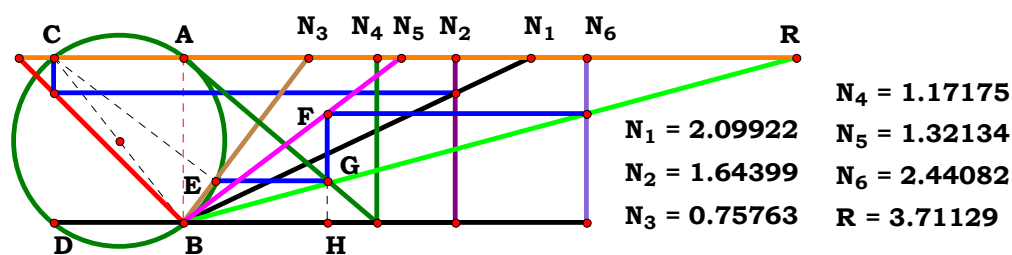
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{E \cdot N_u^2 \cdot (A \cdot C + B \cdot N_u)}{F \cdot [B \cdot D \cdot (C^2 + N_u^2)]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (U \cdot W \cdot l + V \cdot k \cdot m)}{p \cdot (U \cdot Y \cdot l \cdot n \cdot W^2 + U \cdot Y \cdot l \cdot n \cdot m^2)} = 0$$





Unit. **AB := 1** **Given.** **$N_1 := 2.09922$** **$N_2 := 1.64399$** **$N_3 := .75763$**
 $N_4 := 1.17175$ **$N_5 := 1.32134$** **$N_6 := 2.44082$**

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}}$$

U := 18 V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{k} := \frac{\mathbf{U}}{N_1} \quad \mathbf{l} := \frac{\mathbf{V}}{N_2} \quad \mathbf{m} := \frac{\mathbf{W}}{N_3} \quad \mathbf{n} := \frac{\mathbf{X}}{N_4} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_5} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_6}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{GH} := \frac{\mathbf{BN}_3 - \mathbf{EN}_3}{\mathbf{BN}_3} \quad \mathbf{BH} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{GH})$$

$$\mathbf{FH} := \frac{\mathbf{BH}}{\mathbf{N}_5} \quad \mathbf{R} := \frac{\mathbf{N}_6}{\mathbf{FH}} \quad \mathbf{R} = 3.711292$$

Definitions.

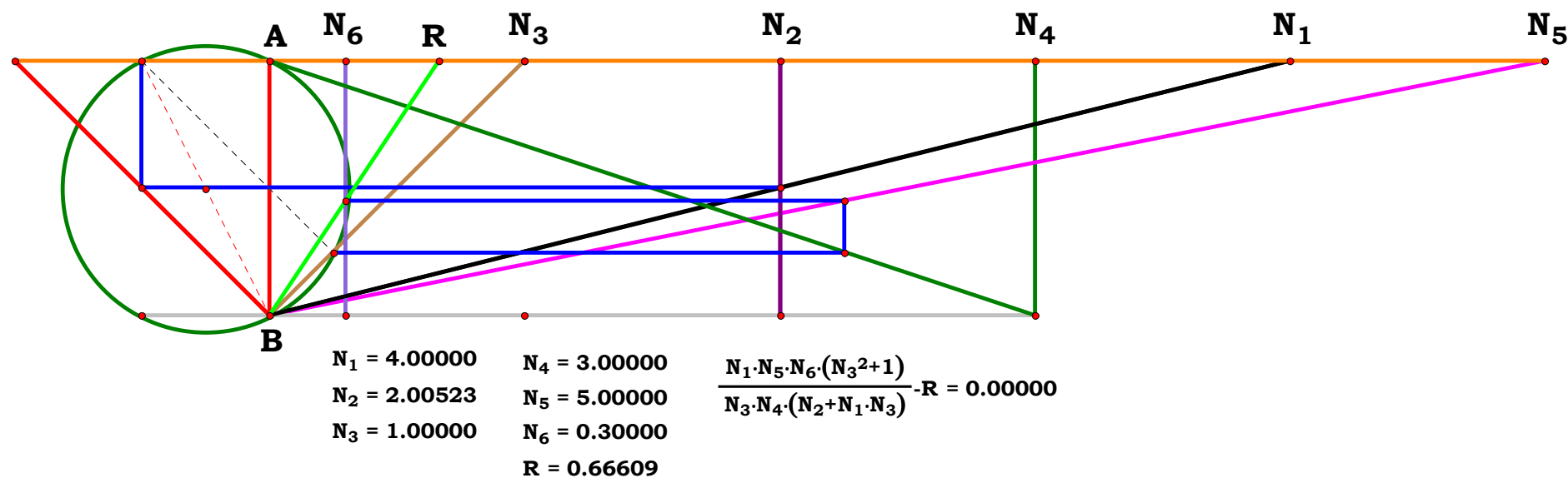
$$R - \frac{N_1 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

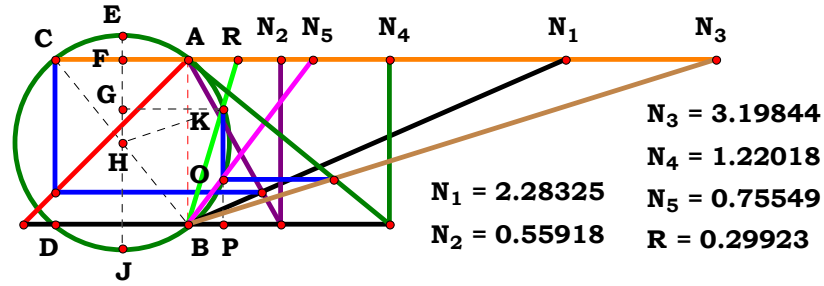
$$\mathbf{R} - \frac{\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_u)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{U} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{l} \cdot \mathbf{n} \cdot (\mathbf{W}^2 + \mathbf{m}^2)}{\mathbf{o} \cdot \mathbf{p} \cdot \mathbf{W} \cdot \mathbf{X} \cdot (\mathbf{U} \cdot \mathbf{W} \cdot \mathbf{l} + \mathbf{V} \cdot \mathbf{k} \cdot \mathbf{m})} = 0$$



$$\frac{N_1 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 2.28325$ $N_2 := .55918$ $N_3 := 3.19844$

$N_4 := 1.22018$ $N_5 := .75549$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

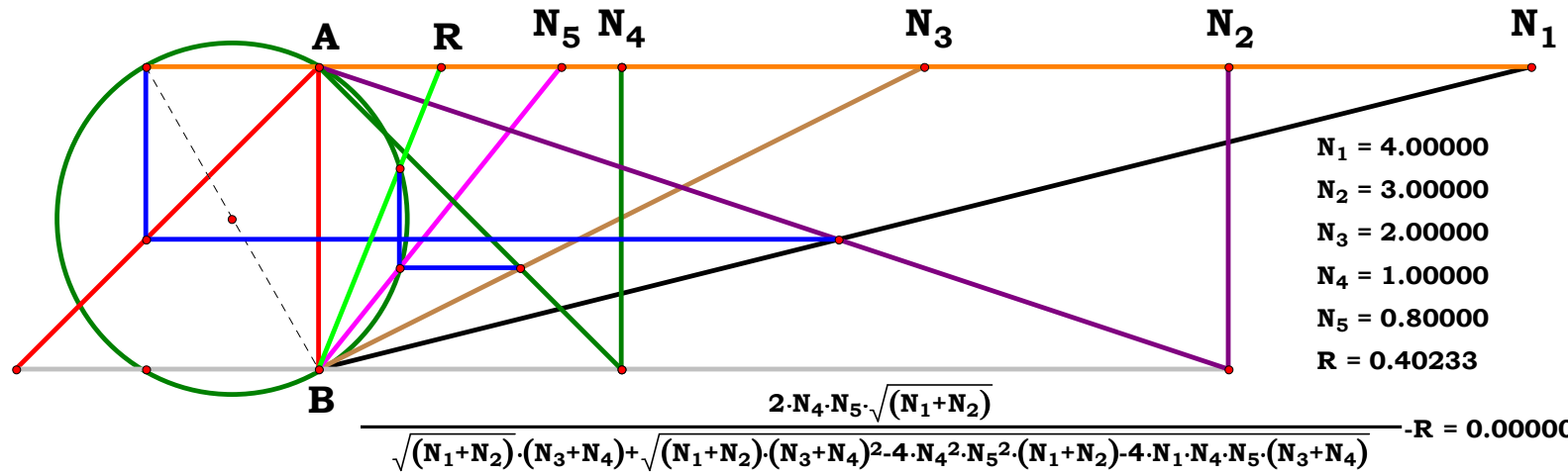
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := BP + AF \quad HK := \frac{EJ}{2}$$

$$GH := \sqrt{HK^2 - GK^2} \quad KO := \frac{AB}{2} + GH$$

$$R := \frac{BP}{KO} \quad R = 0.299227$$



Definitions.

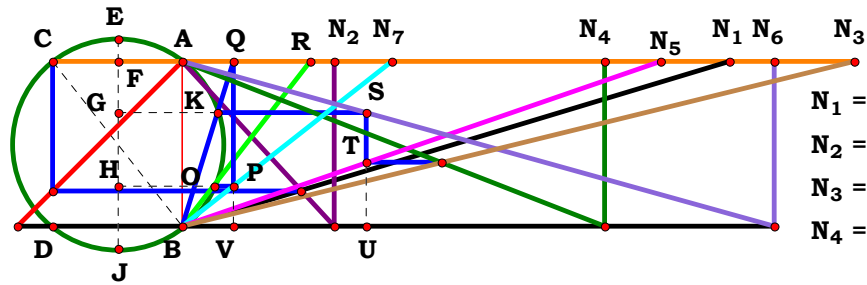
$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{N_1 + N_2}}{\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2)} - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot [E^2 \cdot (C + D)^2 \cdot (A + B) - [4 \cdot C \cdot N_u \cdot [B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B)]]] + \sqrt{[N_u \cdot (A + B)] \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \cdot (C + D)}} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot n \cdot \sqrt{V \cdot m + W \cdot l}}{\sqrt{p^2 \cdot (X \cdot o + Y \cdot n)^2 \cdot (V \cdot m + W \cdot l) - 4 \cdot Z^2 \cdot Y^2 \cdot n^2 \cdot (V \cdot m + W \cdot l) - 4 \cdot Z \cdot V \cdot Y \cdot m \cdot n \cdot p \cdot (X \cdot o + Y \cdot n)} + \sqrt{V \cdot m + W \cdot l} \cdot p \cdot (X \cdot o + Y \cdot n)} = 0$$



$N_1 = 3.30995$
 $N_2 = 0.91756$
 $N_3 = 4.07016$
 $N_4 = 2.55682$
 $N_5 = 2.89605$
 $N_6 = 3.58480$
 $N_7 = 1.26704$
 $R = 0.77383$

Unit. $AB := 1$ Given. $N_1 := 3.330995$ $N_2 := .91756$ $N_3 := 4.07016$
 $N_4 := 2.55682$ $N_5 := 2.89605$ $N_6 := 3.58480$ $N_7 := 1.26704$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$TU := \frac{N_4}{N_3 + N_4} \quad BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6}$$

$$GJ := SU + EF$$

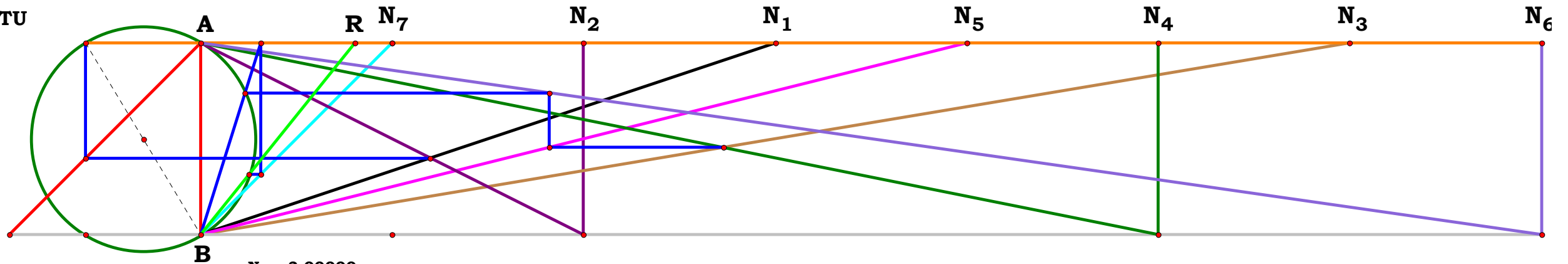
$$GK := \sqrt{GJ \cdot (EJ - GJ)}$$

$$AQ := \frac{GK - AF}{SU}$$

$$PV := \frac{AQ}{N_7} \quad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HO - AF}{PV}$$

$$R = 0.77342$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 6.00000$
 $N_4 = 5.00000$
 $N_5 = 4.00000$
 $N_6 = 7.00000$
 $N_7 = 1.00000$
 $R = 0.80688$

$$\frac{N_1}{N_1 + N_2} = 0.60000$$

$$\sqrt{1^2 + AC^2} = 1.16619$$

$$\frac{AC}{2} = 0.30000$$

$$\frac{EJ - 1}{2} = 0.08310$$

$$\frac{N_4}{N_3 + N_4} = 0.45455$$

$$N_5 \cdot TU = 1.81818$$

$$\frac{N_6 - BU}{N_6} = 0.74026$$

$$SU + EF = 0.82335$$

$$\sqrt{GJ \cdot (EJ - GJ)} = 0.53130$$

$$\frac{GK - AF}{SU} = 0.31245$$

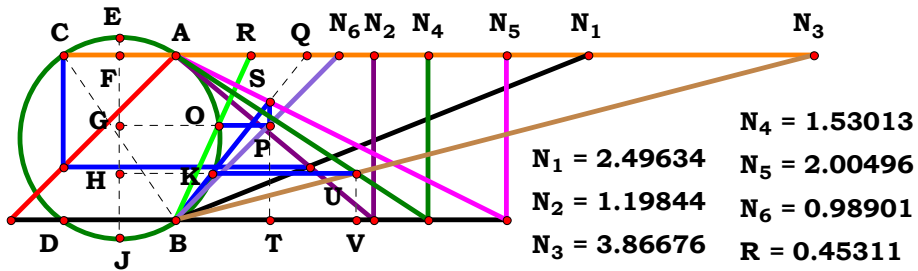
$$\frac{AQ}{N_7} = 0.31245$$

$$PV + EF = 0.39555$$

$$\sqrt{HJ \cdot (EJ - HJ)} = 0.55211$$

$$R - \frac{HO - AF}{PV} = 0.00000$$

$AC = 0.60000$ $SU = 0.74026$
 $EJ = 1.16619$ $GJ = 0.82335$
 $AF = 0.30000$ $GK = 0.53130$
 $EF = 0.08310$ $AQ = 0.31245$
 $TU = 0.45455$ $PV = 0.31245$
 $BU = 1.81818$ $HJ = 0.39555$
 $HO = 0.55211$



Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 1.19844$ $N_3 := 3.86676$
 $N_4 := 1.53013$ $N_5 := 2.00496$ $N_6 := .98901$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

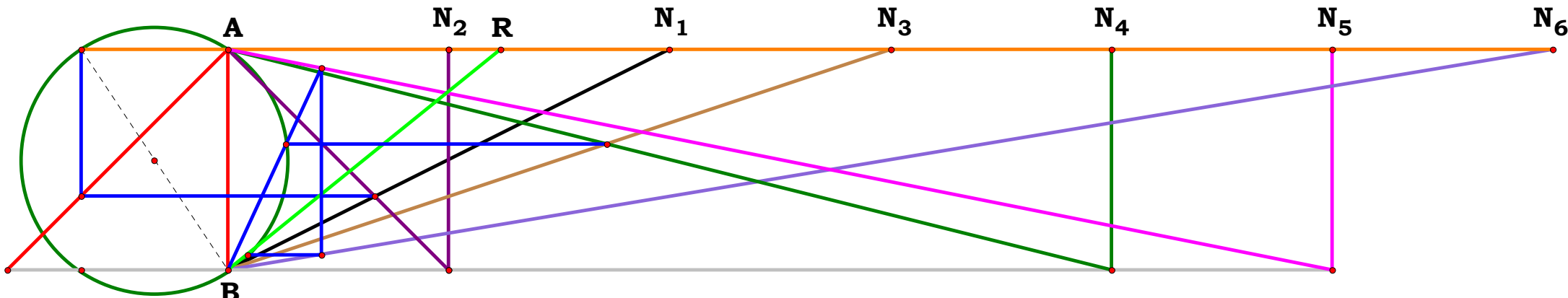
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

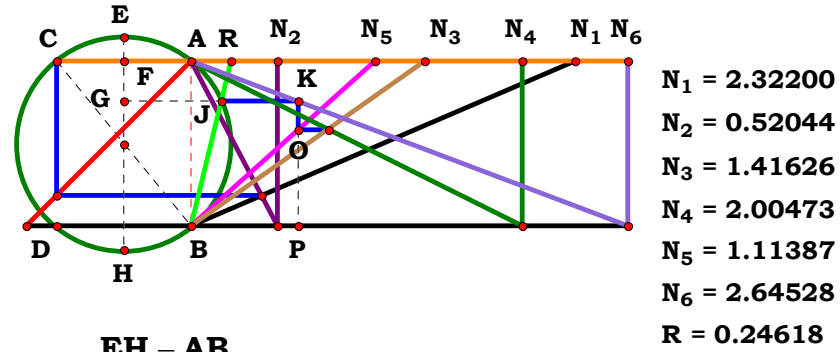
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.453111$$



$N_1 = 2.00000$	$AC = 0.66667$	$HK = 0.59666$	$R - \frac{GO - AF}{PT} = 0.00000$
$N_2 = 1.00000$	$EJ = 1.20185$	$AQ = 0.46083$	
$N_3 = 3.00000$	$AF = 0.33333$	$BT = 0.42194$	
$N_4 = 4.00000$	$EF = 0.10093$	$PT = 0.07032$	
$N_5 = 5.00000$	$UV = 0.57143$	$GJ = 0.17125$	
$N_6 = 6.00000$	$HJ = 0.67235$	$GO = 0.42011$	
$R = 1.23391$			



Unit. $AB := 1$ Given. $N_1 := 2.32200$ $N_2 := .52044$ $N_3 := 1.41626$
 $N_4 := 2.00473$ $N_5 := 1.11387$ $N_6 := 2.64528$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$AC := \frac{N_1}{N_1 + N_2}$ $EH := \sqrt{AB^2 + AC^2}$ $EF := \frac{EH - AB}{2}$

$AF := \frac{AC}{2}$ $OP := \frac{N_4}{N_3 + N_4}$ $BP := N_5 \cdot OP$

$KP := AB - \frac{BP}{N_6}$ $GH := KP + EF$

$GJ := \sqrt{GH \cdot (EH - GH)}$

$R := \frac{GJ - AF}{KP}$ $R = 0.24618$

Definitions.

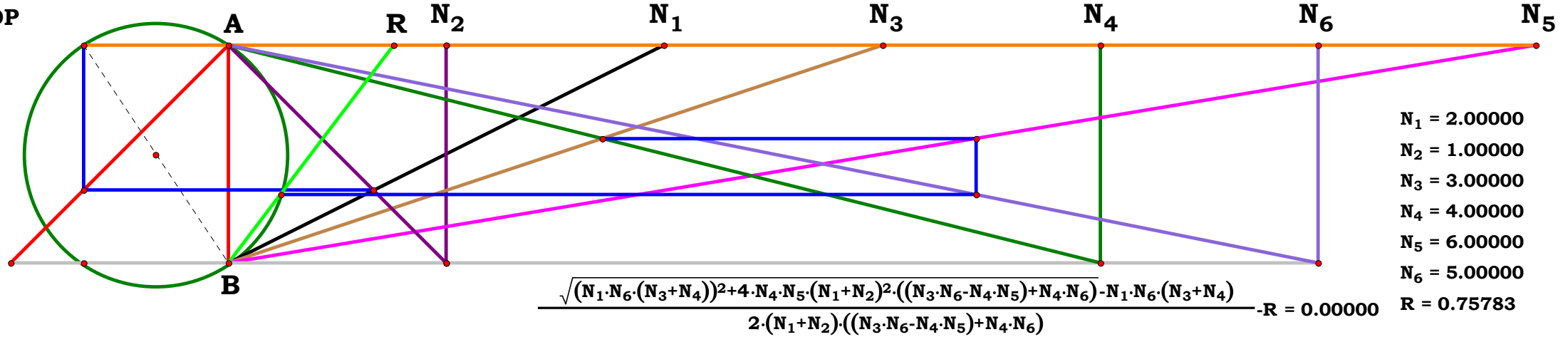
$$R - \frac{\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_1 \cdot N_6 \cdot (N_3 + N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$ $N_6 - \frac{N_u}{F} = 0$

$$R - \frac{\sqrt{4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E] + B^2 \cdot E^2 \cdot (C + D)^2 - B \cdot E \cdot (C + D)}}{2 \cdot (A + B) \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$N_1 - \frac{U}{k} = 0$ $N_2 - \frac{V}{l} = 0$ $N_3 - \frac{W}{m} = 0$ $N_4 - \frac{X}{n} = 0$ $N_5 - \frac{Y}{o} = 0$ $N_6 - \frac{Z}{p} = 0$

$$R - \frac{\sqrt{4 \cdot X \cdot Y \cdot m \cdot p \cdot (U \cdot l + V \cdot k)^2 \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o) + U^2 \cdot Z^2 \cdot l^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - U \cdot Z \cdot l \cdot o \cdot (W \cdot n + X \cdot m)}}{2 \cdot (U \cdot l + V \cdot k) \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$



$$\frac{\sqrt{(N_1 \cdot N_6 \cdot (N_3 + N_4))^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) - N_1 \cdot N_6 \cdot (N_3 + N_4)}}{2 \cdot (N_1 + N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$



4RST6AB3R4

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad GH := \frac{N_4}{N_3 + N_4}$$

$$BH := N_5 \cdot GH \quad FH := \frac{N_6 - BH}{N_6} \quad AK := N_7 \cdot FH$$

$$BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC$$

$$EK := \frac{AK \cdot CK}{BK}$$

$$R := AK \cdot \frac{(BK - EK)}{BK}$$

$$R = 0.321095$$

Definitions.

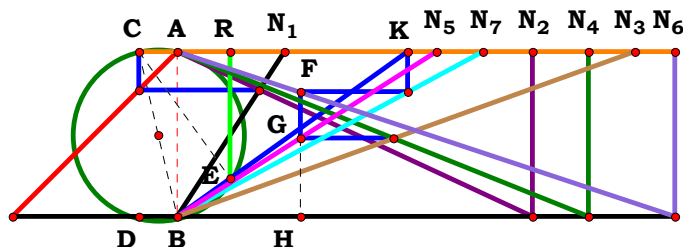
$$R - \frac{N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) \cdot [N_6 \cdot (N_3 + N_4) \cdot (N_1 + N_2) - N_1 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)]}{(N_1 + N_2) \cdot [N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E]]}{(A + B) \cdot [G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2]} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot [T \cdot W \cdot X \cdot Z \cdot k \cdot l \cdot o - Y \cdot n \cdot (V \cdot m + W \cdot l) \cdot (T \cdot Z \cdot k - T \cdot k \cdot p - U \cdot j \cdot p)]}{(T \cdot k + U \cdot j) \cdot [Z^2 \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)^2 + Y^2 \cdot n^2 \cdot p^2 \cdot (V \cdot m + W \cdot l)^2]} = 0$$



$$\begin{array}{lll} N_1 = 0.64635 & N_4 = 2.48902 & N_7 = 1.84818 \\ N_2 = 2.14765 & N_5 = 1.56910 & R = 0.32109 \\ N_3 = 2.77227 & N_6 = 3.01334 & \end{array}$$

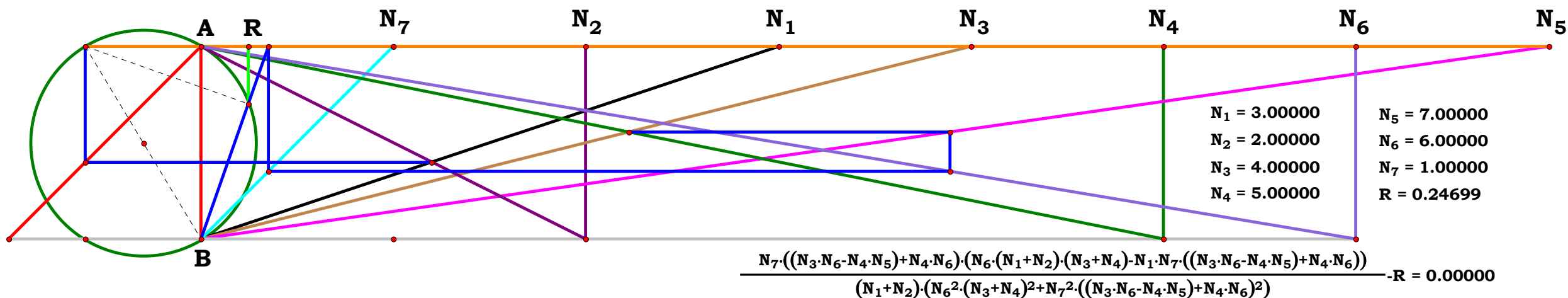
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .64635 \quad N_2 := 2.14765 \quad N_3 := 2.77227 \quad N_4 := 2.48902$$

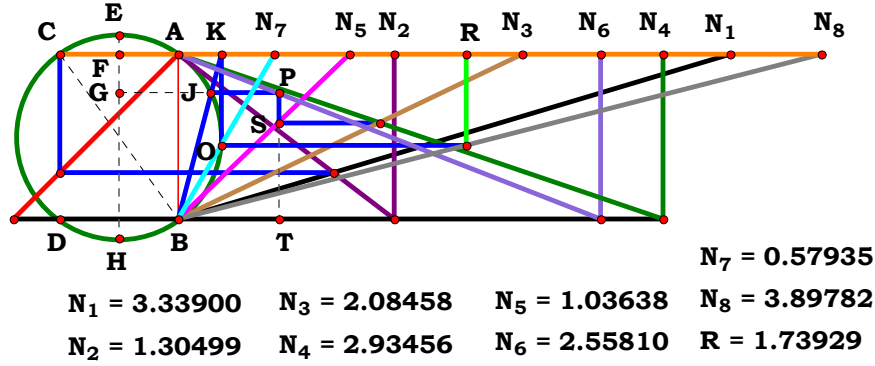
$$N_5 := 1.56910 \quad N_6 := 3.01334 \quad N_7 := 1.84818$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$





Unit. $AB := 1$ Given. $N_1 := 3.33900$ $N_2 := 1.30499$ $N_3 := 2.08458$ $N_4 := 2.93456$
 $N_5 := 1.03638$ $N_6 := 2.55810$ $N_7 := .57935$ $N_8 := 3.89782$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6} \quad GH := PT + EF$$

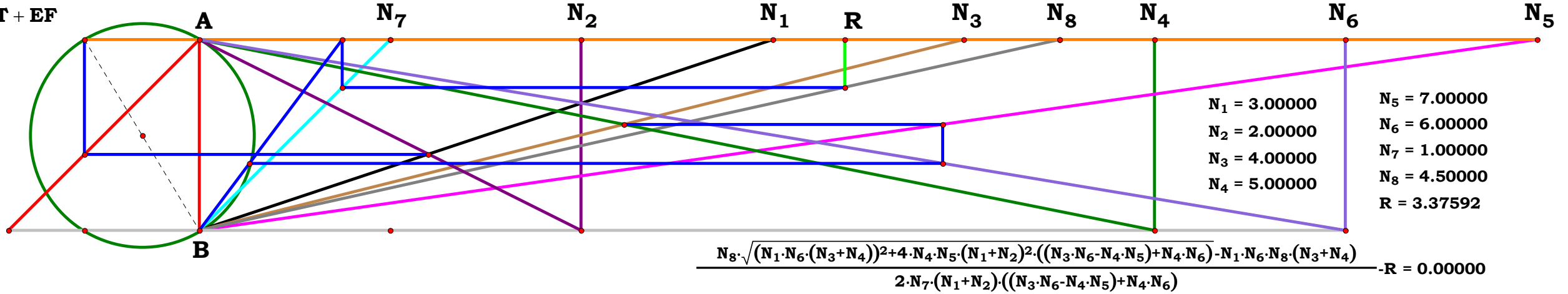
$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{(GJ - AF)}{PT}$$

$$KO := \frac{N_7 - AK}{N_7}$$

$$R := N_8 \cdot (AB - KO)$$

$$R = 1.739282$$



Definitions.

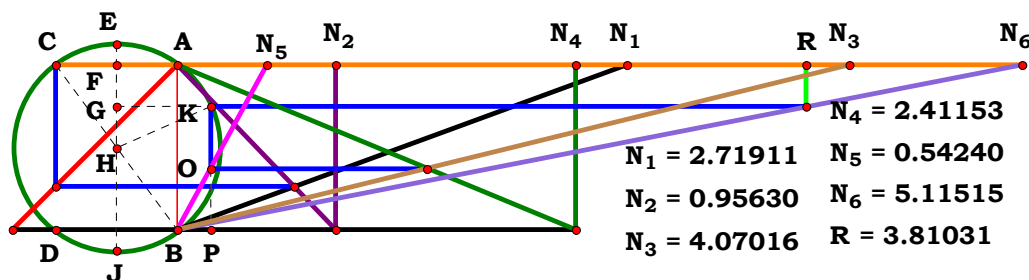
$$R - \frac{N_8 \cdot \left[\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_1 \cdot N_6 \cdot (N_3 + N_4) \right]}{2 \cdot (N_1 + N_2) \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[B \cdot C \cdot E - \sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} + B \cdot D \cdot E \right]}{2 \cdot H \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot o \cdot \left[\sqrt{4 \cdot V \cdot W \cdot k \cdot n \cdot (T \cdot h + S \cdot j)^2 \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) + S^2 \cdot X^2 \cdot j^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - S \cdot X \cdot j \cdot m \cdot (U \cdot l + V \cdot k) \right]}{2 \cdot Y \cdot p \cdot (T \cdot h + S \cdot j) \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.71911$ $N_2 := .95630$ $N_3 := 4.07016$
 $N_4 := 2.41153$ $N_5 := .54240$ $N_6 := 5.11515$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

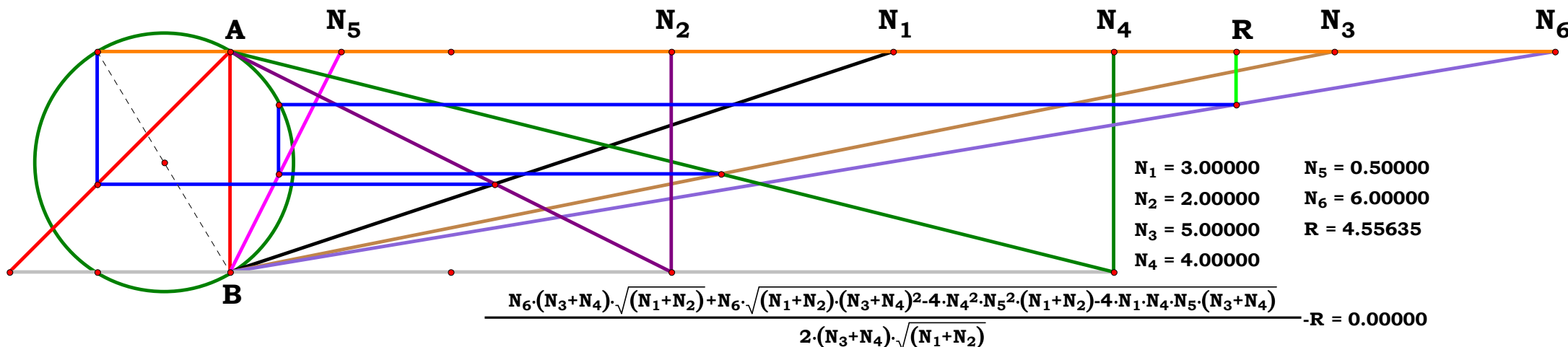
$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP$$

$$GH := \sqrt{HK^2 - GK^2} \quad KP := GH + HK - EF$$

$$R := N_6 \cdot KP \quad R = 3.81033$$

Definitions.



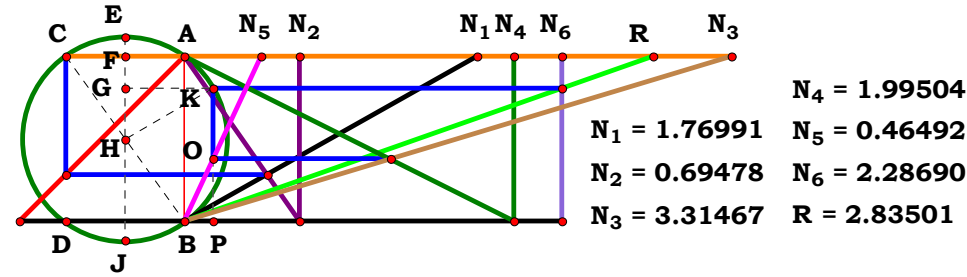
$$R - \frac{N_6 \cdot \left[\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)} \right]}{2 \cdot (N_3 + N_4) \cdot \sqrt{N_1 + N_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A \cdot E}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y^2 \cdot X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y \cdot U \cdot X \cdot l \cdot m \cdot o \cdot (W \cdot n + X \cdot m)} + \sqrt{U \cdot l + V \cdot k} \cdot o \cdot (W \cdot n + X \cdot m) \right]}{2 \cdot \sqrt{U \cdot l + V \cdot k} \cdot p \cdot (W \cdot n + X \cdot m) \cdot o} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.76991$ $N_2 := .69478$ $N_3 := 3.31467$
 $N_4 := 1.99504$ $N_5 := .46492$ $N_6 := 2.28690$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

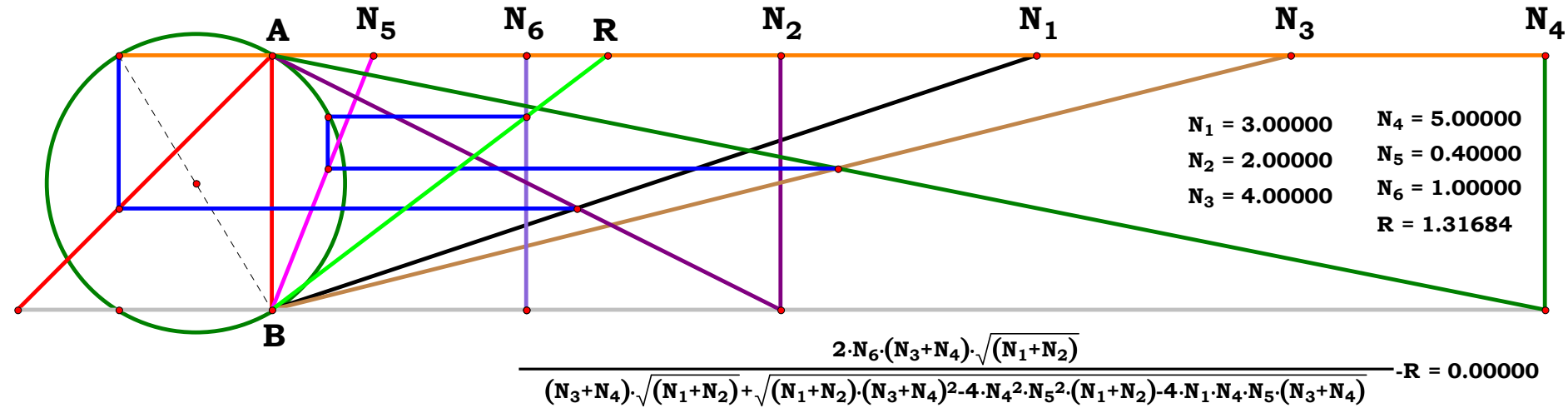
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP$$

$$GH := \sqrt{HK^2 - GK^2} \quad KP := GH + HK - EF$$

$$R := \frac{N_6}{KP} \quad R = 2.835018$$



Definitions.

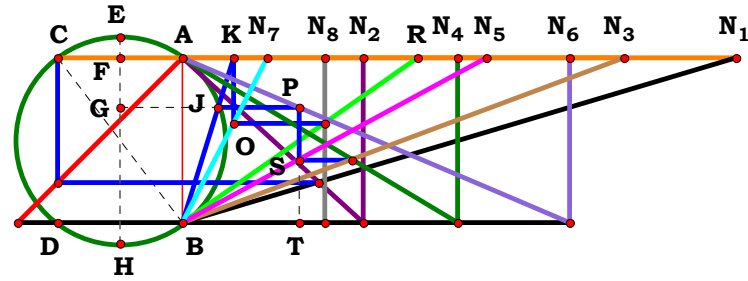
$$R - \frac{2 \cdot N_6 \cdot \sqrt{N_1 + N_2} \cdot (N_3 + N_4)}{\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) - 4 \cdot N_1 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot \sqrt{B} \cdot \sqrt{A} \cdot E}{F \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u} \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right] + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Z \cdot \sqrt{U \cdot l + V \cdot k} \cdot (W \cdot n + X \cdot m) \cdot o}{p \cdot \left[\sqrt{o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y \cdot U \cdot X \cdot l \cdot m \cdot o \cdot (W \cdot n + X \cdot m) - 4 \cdot Y^2 \cdot X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)} + \sqrt{U \cdot l + V \cdot k} \cdot o \cdot (W \cdot n + X \cdot m) \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.34869$ $N_2 := 1.09190$ $N_3 := 2.67541$ $N_4 := 1.66573$
 $N_5 := 1.84030$ $N_6 := 2.34502$ $N_7 := .51155$ $N_8 := .86336$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

$S := 20$ $T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$h := \frac{S}{N_1}$ $j := \frac{T}{N_2}$ $k := \frac{Y}{N_3}$ $l := \frac{V}{N_4}$ $m := \frac{W}{N_5}$ $n := \frac{X}{N_6}$ $o := \frac{Y}{N_7}$ $p := \frac{Z}{N_8}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4}$$

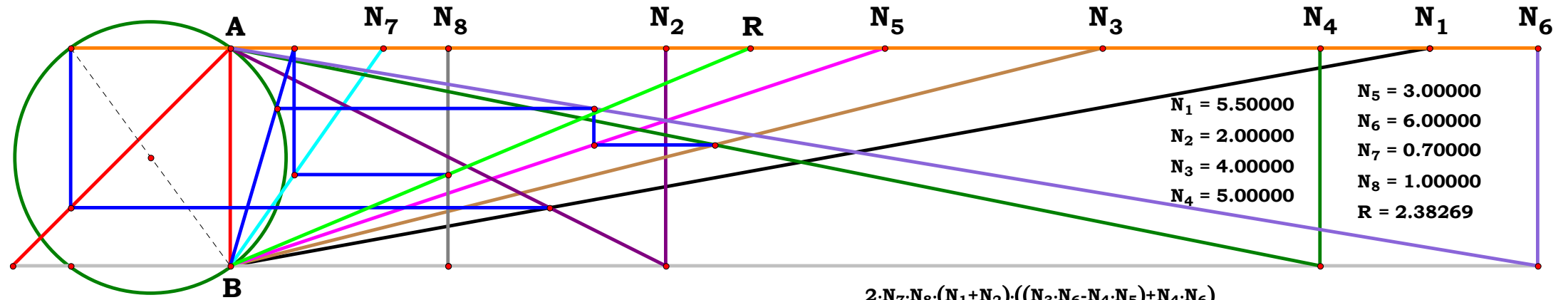
$$BT := N_5 \cdot ST \quad PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF \quad GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT} \quad KO := \frac{N_7 - AK}{N_7}$$

$$R := \frac{N_8}{AB - KO} \quad R = 1.423963$$

$N_1 = 3.34869$ $N_4 = 1.66573$ $N_7 = 0.51155$
 $N_2 = 1.09190$ $N_5 = 1.84030$ $N_8 = 0.86336$
 $N_3 = 2.67541$ $N_6 = 2.34502$ $R = 1.42396$



$N_1 = 5.50000$ $N_5 = 3.00000$
 $N_2 = 2.00000$ $N_6 = 6.00000$
 $N_3 = 4.00000$ $N_7 = 0.70000$
 $N_4 = 5.00000$ $N_8 = 1.00000$
 $R = 2.38269$

$$\frac{2 \cdot N_7 \cdot N_8 \cdot (N_1 + N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)}{\sqrt{(N_1 \cdot N_6 \cdot (N_3 + N_4))^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) - N_1 \cdot N_6 \cdot (N_3 + N_4)}} - R = 0.00000$$

Definitions.

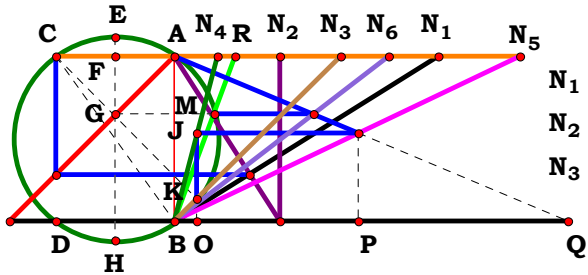
$$R - \frac{2 \cdot N_7 \cdot N_8 \cdot (N_1 + N_2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_1 \cdot N_6 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (F - E) - D \cdot E]}{G \cdot H \cdot [B \cdot E \cdot (C + D) - \sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E]}]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot (T \cdot h + S \cdot j) \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{o \cdot p \cdot [\sqrt{X^2 \cdot S^2 \cdot j^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2 + 4 \cdot V \cdot W \cdot k \cdot n \cdot (T \cdot h + S \cdot j)^2 \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) - S \cdot X \cdot j \cdot m \cdot (U \cdot l + V \cdot k)}]} = 0$$



$N_1 = 1.59556$ $N_4 = 0.26129$
 $N_2 = 0.63667$ $N_5 = 2.09213$
 $N_3 = 1.00946$ $N_6 = 1.29895$
 $R = 0.36947$

Unit. $AB := 1$ Given. $N_1 := 1.59556$ $N_2 := .63667$ $N_3 := 1.00946$
 $N_4 := .26129$ $N_5 := 2.09213$ $N_6 := 1.29895$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

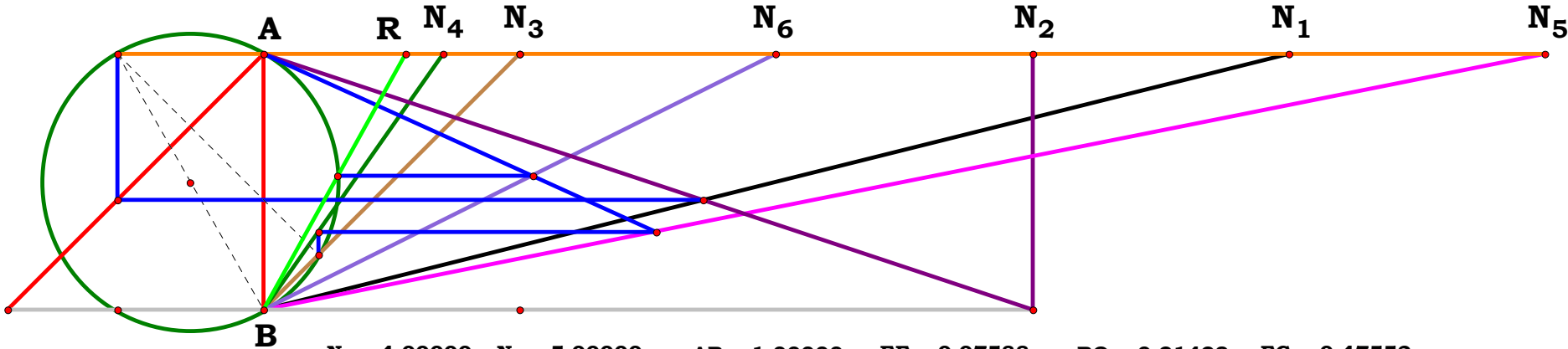
$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

$$R := \frac{GM - AF}{AB - FG} \quad R = 0.369478$$



$N_1 = 4.00000$ $N_5 = 5.00000$ $AB = 1.00000$ $EF = 0.07588$ $BO = 0.21429$ $FG = 0.47552$
 $N_2 = 3.00000$ $N_6 = 2.00000$ $AC = 0.57143$ $BN_3 = 1.41421$ $JO = 0.30612$ $EG = 0.55140$
 $N_3 = 1.00000$ $R = 0.55225$ $EH = 1.15175$ $CN_3 = 1.57143$ $BP = 1.53061$ $GM = 0.57536$
 $N_4 = 0.70000$ $AF = 0.28571$ $KN_3 = 1.11117$ $BQ = 2.20588$ $R - \frac{GM - AF}{AB - FG} = 0.00000$

Definitions.

$$R - \frac{\left[\left(N_3 \cdot N_5 - N_3 \cdot N_6 + N_4 \cdot N_6 + N_3^2 \cdot N_4 \cdot N_6 \right) \cdot (N_1 + N_2) \cdot N_1 - (N_5 - N_6) \cdot N_1^2 \cdot N_3^2 \dots \right.}{\left. + - \sqrt{N_1^2 \cdot N_6^2 \cdot \left[N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2) \right]^2 + N_1^2 \cdot N_3^2 \cdot N_5^2 \cdot (N_1 \cdot N_3 - N_2 - N_1)^2 \dots} \right.}{\left. + - 2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) \cdot (N_1 \cdot N_3 - N_2 - N_1) \cdot \left[N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2) \right] \right.} \cdot (N_1 + N_2)^2 = 0$$


$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{BG} := \frac{\mathbf{N}_3 \cdot (\mathbf{BN}_3 - \mathbf{EN}_3)}{\mathbf{BN}_3} \quad \mathbf{FG} := \frac{\mathbf{BG}}{\mathbf{N}_4}$$

$$\mathbf{FH} := \mathbf{N}_5 \cdot \mathbf{FG} \qquad \mathbf{BJ} := \frac{\mathbf{FH}}{(\mathbf{AB} - \mathbf{FG})}$$

$$\text{BO} := \frac{N_6 \cdot \text{BJ}}{N_6 + \text{BJ}} \quad \text{KO} := \frac{N_7 - \text{BO}}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 1.118775$$

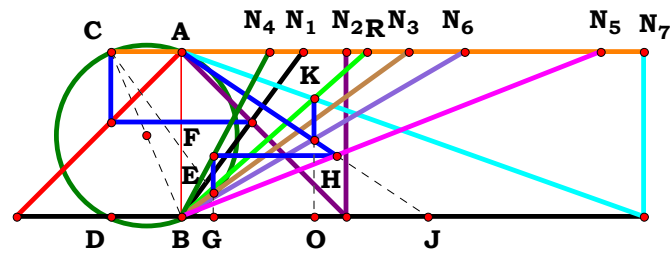
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2 - N_1 \cdot N_3)}{N_6 \cdot N_7 \cdot \left[N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2) \right] - N_3 \cdot N_5 \cdot (N_6 - N_7) \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

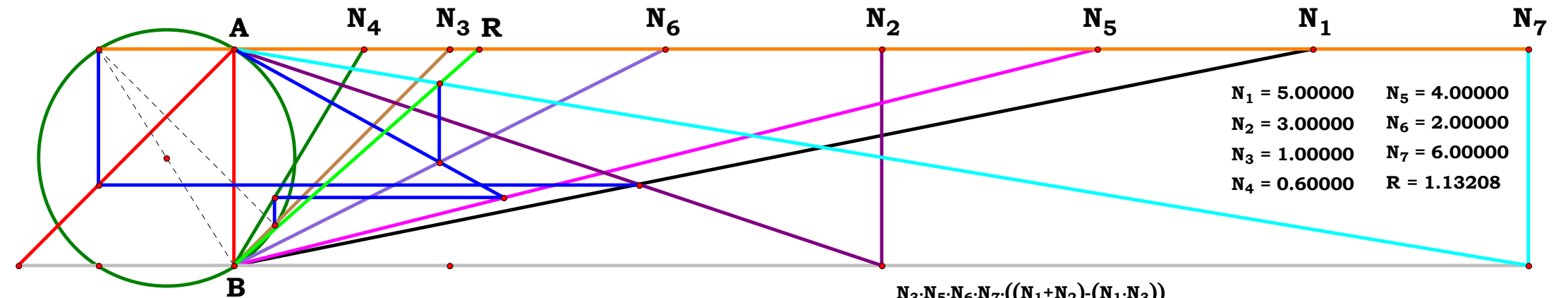
$$\mathbf{R} - \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]}{\mathbf{N}_{\mathbf{u}}^2 \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{E} - \mathbf{F} + \mathbf{G}) + \mathbf{C} \cdot [\mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G})] \cdot (\mathbf{A} + \mathbf{B})} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$\mathbf{R} - \frac{\mathbf{V} \cdot \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot (\mathbf{T} \cdot \mathbf{k} \cdot \mathbf{l} - \mathbf{T} \cdot \mathbf{V} \cdot \mathbf{k} + \mathbf{U} \cdot \mathbf{j} \cdot \mathbf{l})}{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot (\mathbf{V}^2 + \mathbf{l}^2) \cdot (\mathbf{T} \cdot \mathbf{k} + \mathbf{U} \cdot \mathbf{j}) + \mathbf{V} \cdot \mathbf{m} \cdot (\mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{n}) \cdot (\mathbf{T} \cdot \mathbf{V} \cdot \mathbf{k} - \mathbf{T} \cdot \mathbf{k} \cdot \mathbf{l} - \mathbf{U} \cdot \mathbf{j} \cdot \mathbf{l})} = 0$$



N₁ = 0.73353 N₄ = 0.53249 N₇ = 2.79739
N₂ = 0.99504 N₅ = 2.53768 R = 1.11879
N₃ = 1.37752 N₆ = 1.71544



$N_1 = 5.00000$	$N_5 = 4.00000$
$N_2 = 3.00000$	$N_6 = 2.00000$
$N_3 = 1.00000$	$N_7 = 6.00000$
$N_4 = 0.60000$	$R = 1.13208$

$$\frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot ((N_1 + N_2) - (N_1 \cdot N_3))}{N_6 \cdot N_7 \cdot (N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 \cdot N_4) \cdot (N_1 + N_2)) - N_3 \cdot N_5 \cdot (N_6 \cdot N_7) \cdot ((N_1 + N_2) - (N_1 \cdot N_3))} \cdot R = 0.00000$$

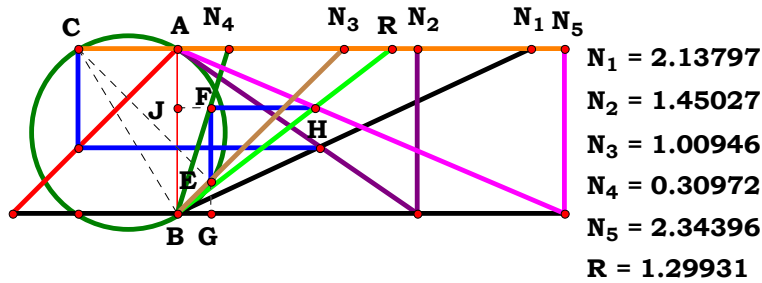
Unit. AB := 1 Given. $N_1 := .73353$ $N_2 := .99504$ $N_3 := 1.37752$ $N_4 := .53249$

$$N_5 := 2.53768 \quad N_6 := 1.71544 \quad N_7 := 2.79739$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \quad \mathbf{G} := \frac{\mathbf{N_u}}{\mathbf{N_7}}$$

T := 19 U := 18 V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{j} := \frac{\mathbf{T}}{N_1} \quad \mathbf{k} := \frac{\mathbf{U}}{N_2} \quad \mathbf{l} := \frac{\mathbf{V}}{N_3} \quad \mathbf{m} := \frac{\mathbf{W}}{N_4} \quad \mathbf{n} := \frac{\mathbf{X}}{N_5} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_6} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_7}$$



Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 1.45027$ $N_3 := 1.00946$
 $N_4 := .30972$ $N_5 := 2.34396$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$HJ := N_5 \cdot (AB - FG) \quad R := \frac{HJ}{FG} \quad R = 1.299387$$

Definitions.

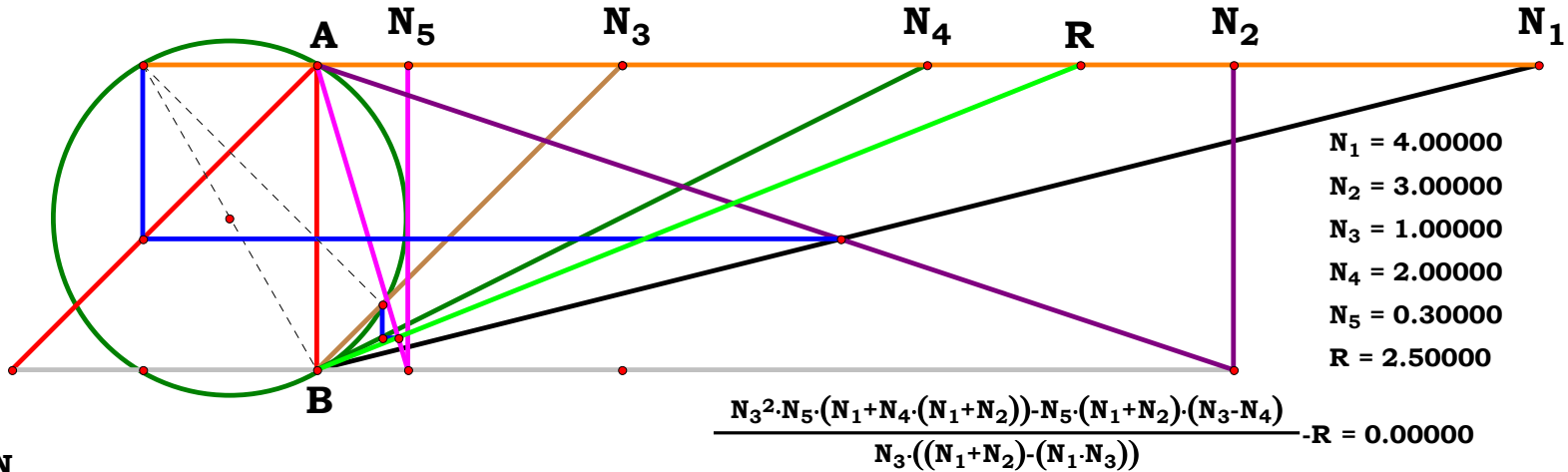
$$R - \frac{N_3^2 \cdot N_5 \cdot [N_1 + N_4 \cdot (N_1 + N_2)] - N_5 \cdot (N_3 - N_4) \cdot (N_1 + N_2)}{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

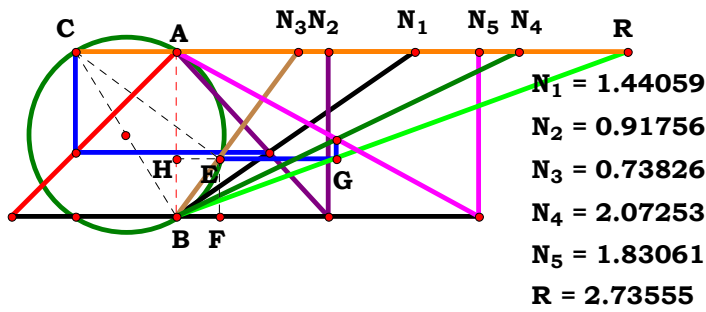
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A + B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)}{X \cdot o \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := .91756$ $N_3 := .73826$

$N_4 := 2.07253$ $N_5 := 1.83061$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{(BN_3 - EN_3)}{BN_3} \quad HG := \frac{N_5 \cdot N_4}{N_5 + N_4}$$

$$R := \frac{HG}{EF} \quad R = 2.735571$$

Definitions.

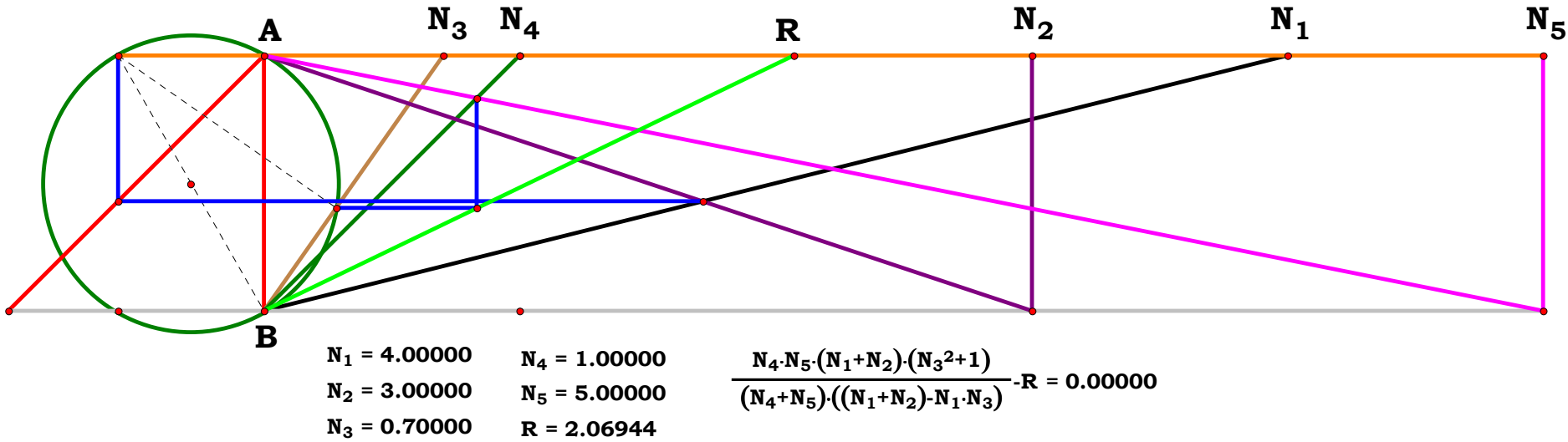
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

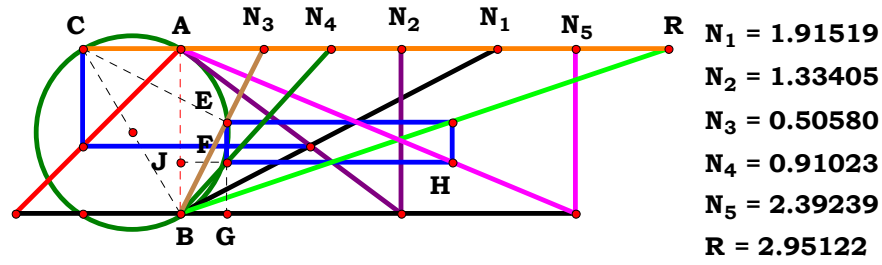
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (D + E) \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)}{n \cdot (Y \cdot p + Z \cdot o) \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.91519$ $N_2 := 1.33405$ $N_3 := .50580$

$N_4 := .91023$ $N_5 := 2.39239$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG) \quad EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 2.951229$$

Definitions.

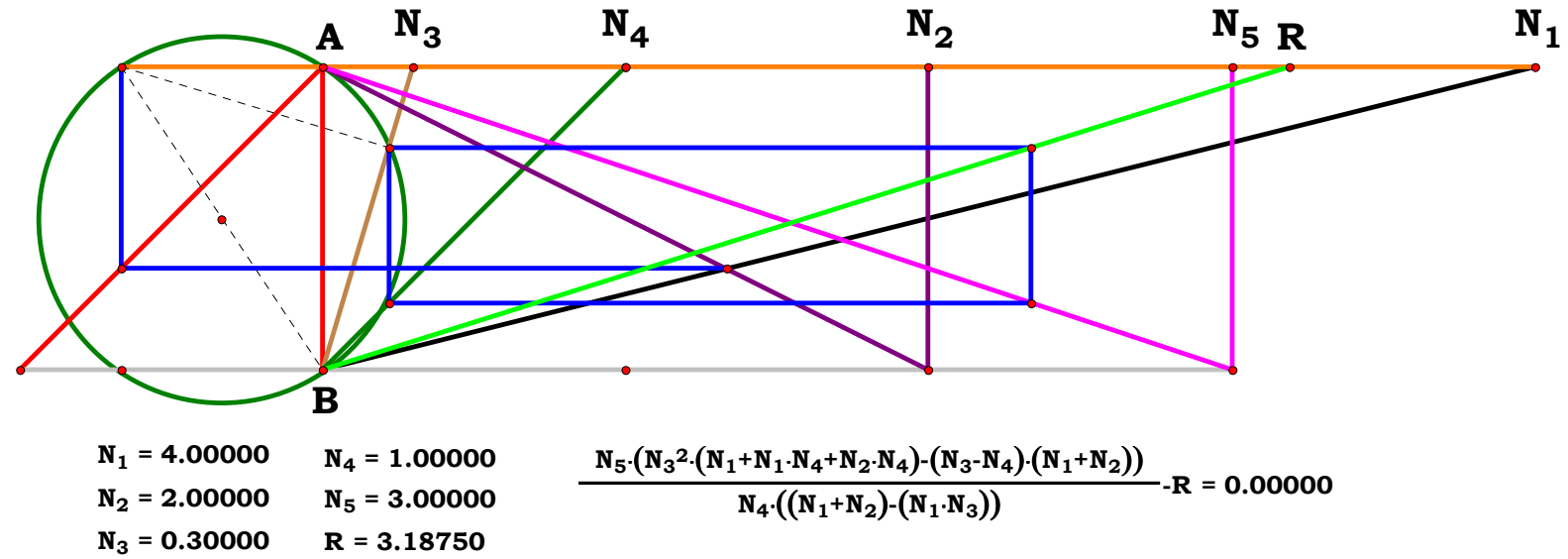
$$R - \frac{N_5 \cdot [N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2)]}{N_4 \cdot (N_1 + N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{(A + B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)}{C \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 0$$

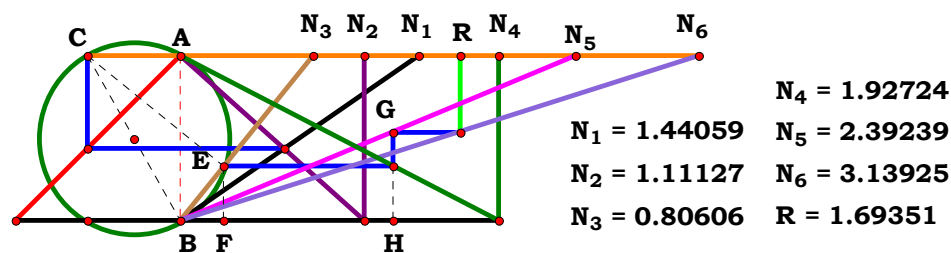
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - V \cdot m \cdot n - W \cdot l \cdot n)}{Y \cdot n \cdot p \cdot (V \cdot m \cdot n - V \cdot X \cdot m + W \cdot l \cdot n)} = 0$$





4RST6AB3R14



Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := 1.11127$ $N_3 := .80606$
 $N_4 := 1.92724$ $N_5 := 2.39239$ $N_6 := 3.13925$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - EF)$$

$$GH := \frac{BH}{N_5} \quad R := N_6 \cdot GH$$

$R = 1.693517$

Definitions.

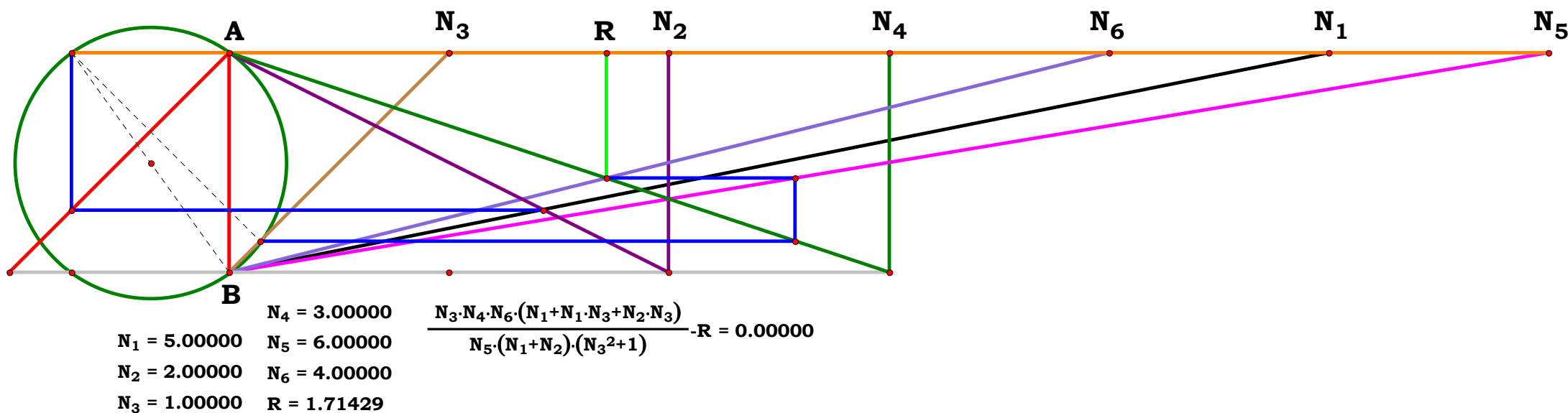
$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

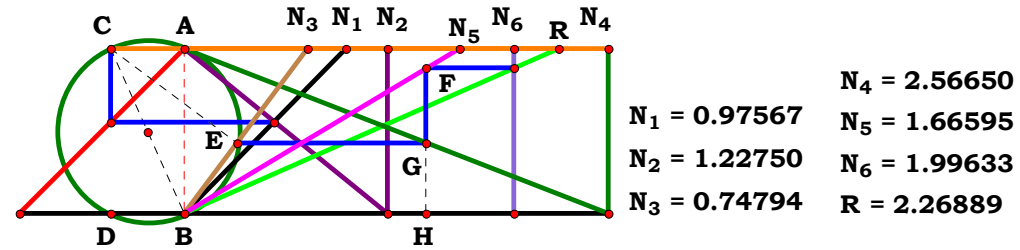
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{E \cdot N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (U \cdot W \cdot l + V \cdot W \cdot k + U \cdot l \cdot m)}{Y \cdot n \cdot p \cdot (U \cdot l + V \cdot k) \cdot (W^2 + m^2)} = 0$$





Unit. $AB := 1$ Given. $N_1 := .97567$ $N_2 := 1.22750$ $N_3 := .74794$
 $N_4 := 2.56650$ $N_5 := 1.66595$ $N_6 := 1.99633$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$GH := \frac{BN_3 - EN_3}{BN_3}$$

$$BH := N_4 \cdot (AB - GH) \quad FH := \frac{BH}{N_5}$$

$$R := \frac{N_6}{FH} \quad R = 2.268889$$

Definitions.

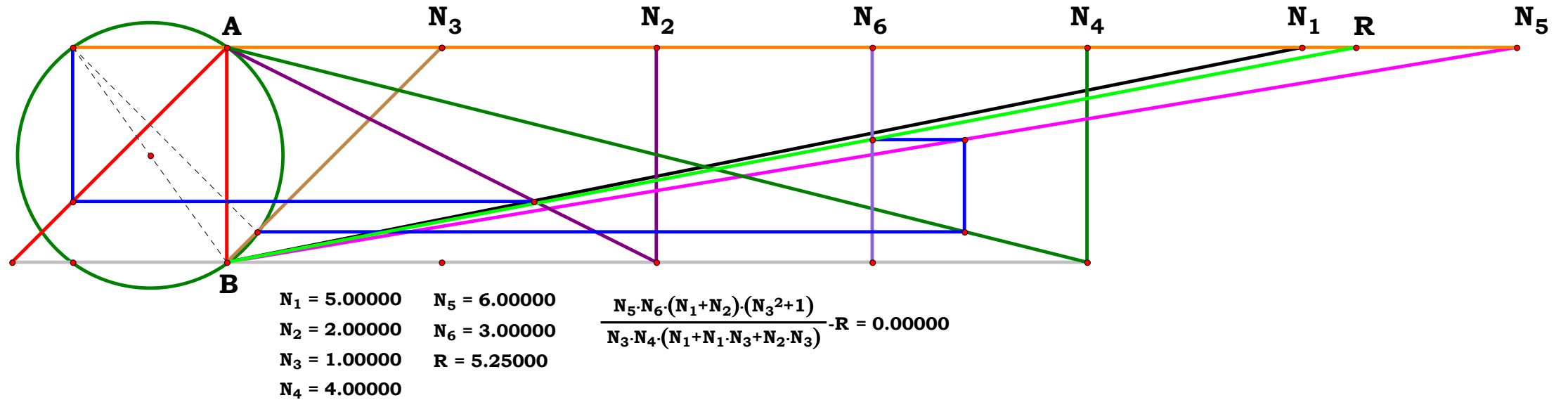
$$R - \frac{N_5 \cdot N_6 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

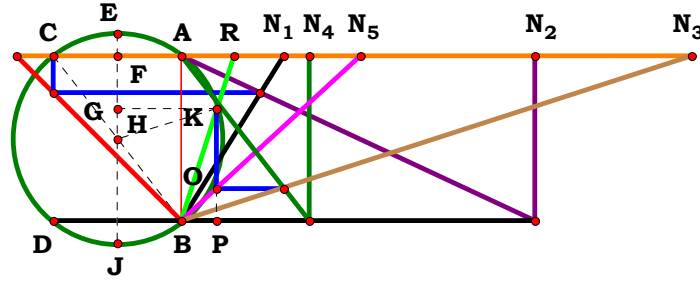
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot F \cdot [B \cdot C + N_u \cdot (A + B)]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot Z \cdot n \cdot (U \cdot l + V \cdot k) \cdot (W^2 + m^2)}{W \cdot X \cdot o \cdot p \cdot (U \cdot W \cdot l + V \cdot W \cdot k + U \cdot l \cdot m)} = 0$$





$N_1 = 0.61730$
 $N_2 = 2.13797$
 $N_3 = 3.09190$
 $N_4 = 0.77463$
 $N_5 = 1.08481$
 $R = 0.31740$

Unit. $AB := 1$ Given. $N_1 := .61730$ $N_2 := 2.13797$ $N_3 := 3.09190$

$N_4 := .77463$ $N_5 := 1.08481$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

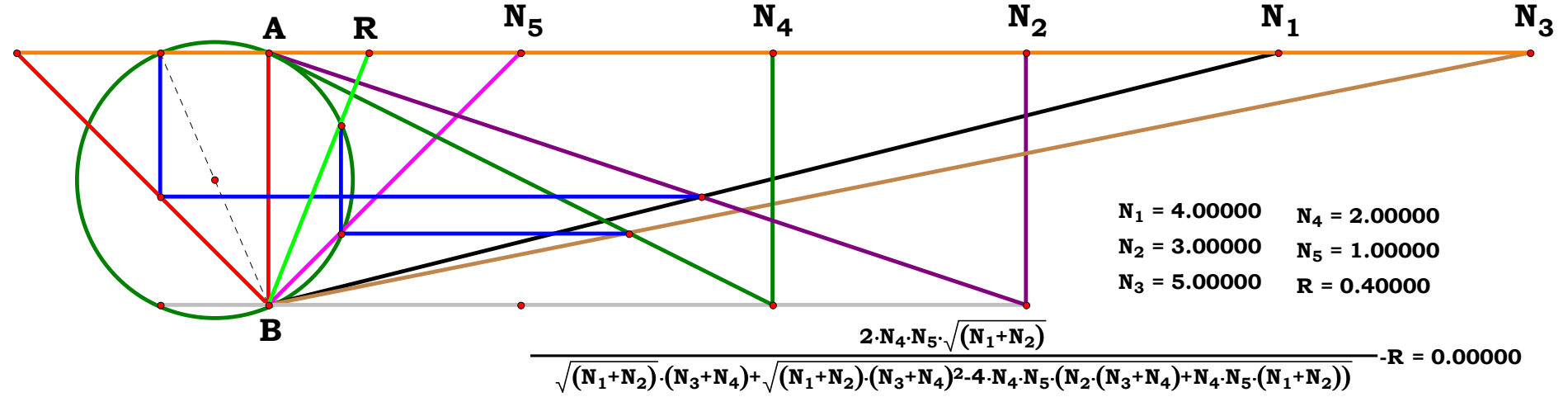
$$EF := \frac{EJ - AB}{2} \quad AF := \frac{AC}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := BP + AF \quad HK := \frac{EJ}{2}$$

$$GH := \sqrt{HK^2 - GK^2} \quad KO := \frac{AB}{2} + GH$$

$$R := \frac{BP}{KO} \quad R = 0.317401$$



$N_1 = 4.00000$ $N_4 = 2.00000$
 $N_2 = 3.00000$ $N_5 = 1.00000$
 $N_3 = 5.00000$ $R = 0.40000$

$$\frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{(N_1 + N_2)}}{\sqrt{(N_1 + N_2) \cdot (N_3 + N_4)} + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot (N_2 \cdot (N_3 + N_4) + N_4 \cdot N_5 \cdot (N_1 + N_2))}} - R = 0.00000$$

Definitions.

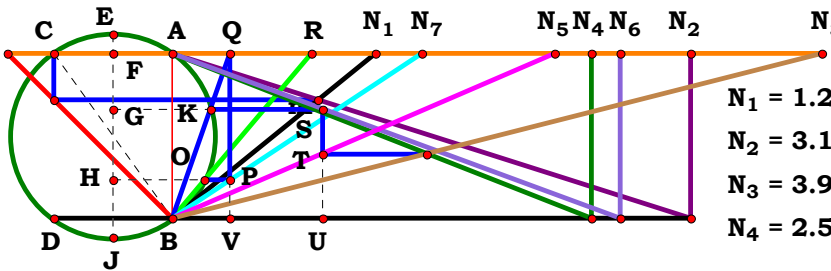
$$R - \frac{2 \cdot N_4 \cdot N_5 \cdot \sqrt{N_1 + N_2}}{\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4 \cdot N_5 \cdot [N_2 \cdot (N_3 + N_4) + N_4 \cdot N_5 \cdot (N_1 + N_2)]}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot [E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot [A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B)]]} + \sqrt{N_u \cdot (A + B) \cdot E \cdot (C + D)}} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot n \cdot \sqrt{V \cdot m + W \cdot l}}{\sqrt{p^2 \cdot (X \cdot o + Y \cdot n)^2 \cdot (V \cdot m + W \cdot l) - 4 \cdot Z^2 \cdot Y^2 \cdot n^2 \cdot (V \cdot m + W \cdot l) - 4 \cdot Z \cdot W \cdot Y \cdot l \cdot n \cdot p \cdot (X \cdot o + Y \cdot n)} + \sqrt{V \cdot m + W \cdot l} \cdot p \cdot (X \cdot o + Y \cdot n)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.22750$ $N_2 := 3.13560$ $N_3 := 3.93456$
 $N_4 := 2.53745$ $N_5 := 2.31490$ $N_6 := 2.71202$ $N_7 := 1.51098$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$TU := \frac{N_4}{N_3 + N_4}$$

$$BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6}$$

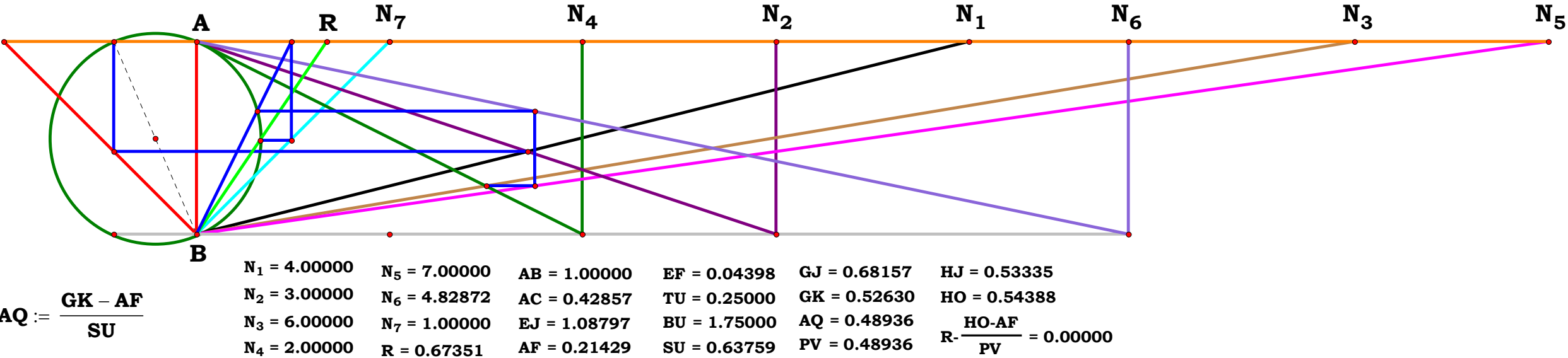
$$GJ := SU + EF$$

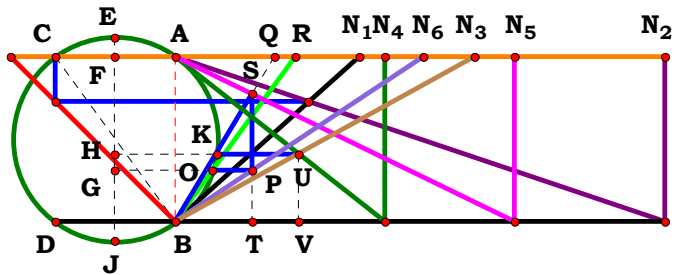
$$GK := \sqrt{GJ \cdot (EJ - GJ)} \quad AQ := \frac{GK - AF}{SU}$$

$$PV := \frac{AQ}{N_7} \quad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HO - AF}{PV}$$

$$R = 0.83973$$





$N_1 = 1.11127$ $N_5 = 2.05339$
 $N_2 = 2.96126$ $N_6 = 1.50130$
 $N_3 = 1.81338$ $R = 0.72418$
 $N_4 = 1.26861$

Unit. $AB := 1$ Given. $N_1 := 1.11127$ $N_2 := 2.96126$ $N_3 := 1.81338$
 $N_4 := 1.26961$ $N_5 := 2.05339$ $N_6 := 1.50130$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

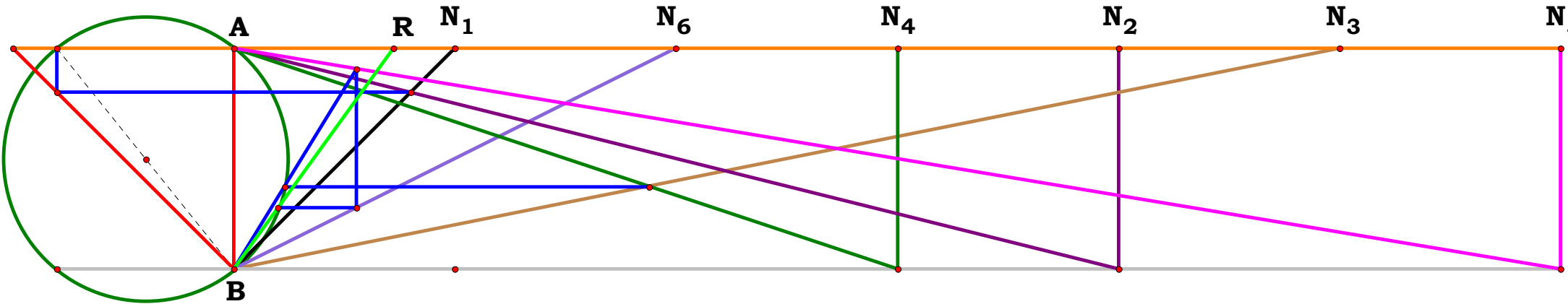
$$UV := \frac{N_4}{N_3 + N_4} \qquad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \qquad AQ := \frac{HK - AF}{UV}$$

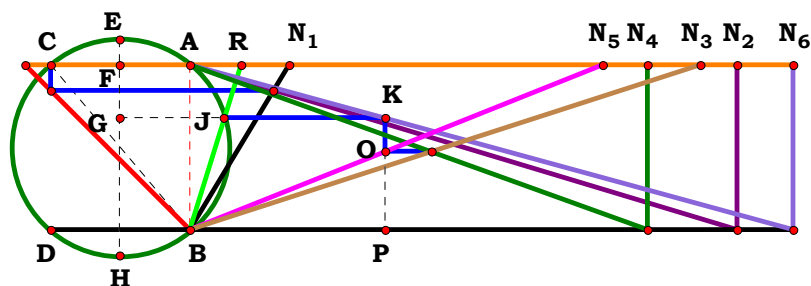
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \qquad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \qquad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \qquad R = 0.724289$$



$N_1 = 1.00000$	$N_4 = 3.00000$	$AB = 1.00000$	$EF = 0.14031$	$AQ = 0.60798$	$GO = 0.59986$
$N_2 = 4.00000$	$N_5 = 6.00000$	$AC = 0.80000$	$UV = 0.37500$	$BT = 0.55204$	
$N_3 = 5.00000$	$N_6 = 2.00000$	$EJ = 1.28062$	$HJ = 0.51531$	$PT = 0.27602$	$R \cdot \frac{GO - AF}{PT} = 0.00000$
	$R = 0.72408$	$AF = 0.40000$	$HK = 0.62799$	$GJ = 0.41633$	



$N_1 = 0.59793$
 $N_2 = 3.30995$
 $N_3 = 3.09190$
 $N_4 = 2.76991$
 $N_5 = 2.49893$
 $N_6 = 3.65154$
 $R = 0.30667$

Unit. $AB := 1$ Given. $N_1 := .59793$ $N_2 := 3.30995$ $N_3 := 3.09190$
 $N_4 := 2.76991$ $N_5 := 2.49893$ $N_6 := 3.65154$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$
 $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad EF := \frac{EH - AB}{2} \quad AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad KP := AB - \frac{BP}{N_6}$$

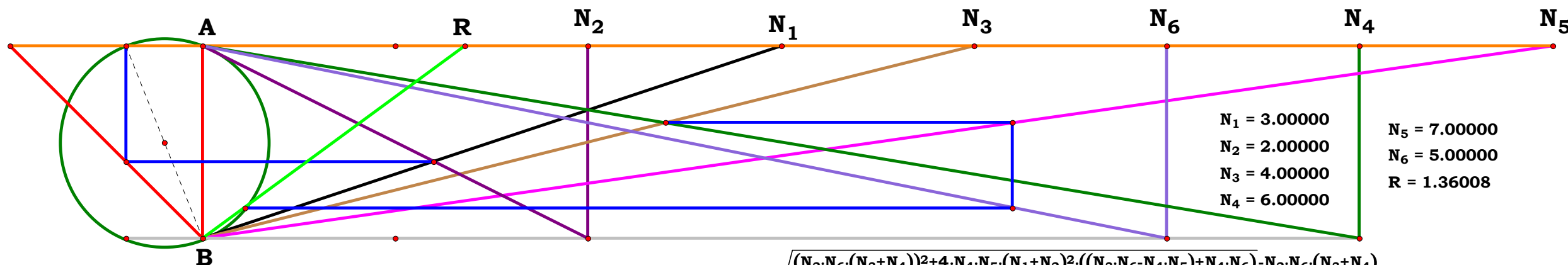
$$GH := KP + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GJ - AF}{KP}$$

$$R = 0.306668$$

Definitions.



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 6.00000$
 $N_5 = 7.00000$
 $N_6 = 5.00000$
 $R = 1.36008$

$$\frac{\sqrt{(N_2 \cdot N_6 \cdot (N_3 + N_4))^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) - N_2 \cdot N_6 \cdot (N_3 + N_4)}}{2 \cdot (N_1 + N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$

$$R - \frac{\sqrt{N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_2 \cdot N_6 \cdot (N_3 + N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B)^2 - A \cdot E \cdot (C + D)}}{2 \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot X \cdot Y \cdot m \cdot p \cdot (U \cdot l + V \cdot k)^2 \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o) + V^2 \cdot Z^2 \cdot k^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - V \cdot Z \cdot k \cdot o \cdot (W \cdot n + X \cdot m)}}{(2 \cdot U \cdot l + 2 \cdot V \cdot k) \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$



4RST6AB4R4

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2}$$

$$GH := \frac{N_4}{N_3 + N_4}$$

$$BH := N_5 \cdot GH$$

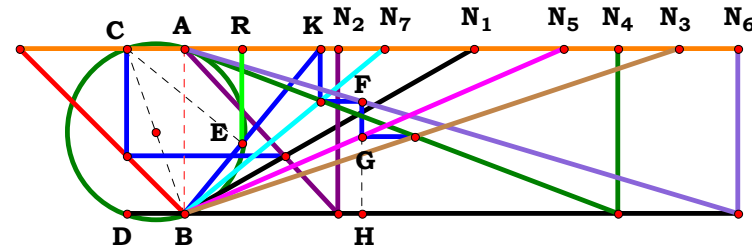
$$FH := \frac{N_6 - BH}{N_6}$$

$$AK := N_7 \cdot FH$$

$$BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK}$$

$$R := AK \cdot \frac{(BK - EK)}{BK} \quad R = 0.350796$$



$$\begin{aligned} N_1 &= 1.75053 & N_3 &= 2.99504 & N_5 &= 2.29553 & N_7 &= 1.21072 \\ N_2 &= 0.92724 & N_4 &= 2.62462 & N_6 &= 3.35128 & R &= 0.35080 \end{aligned}$$

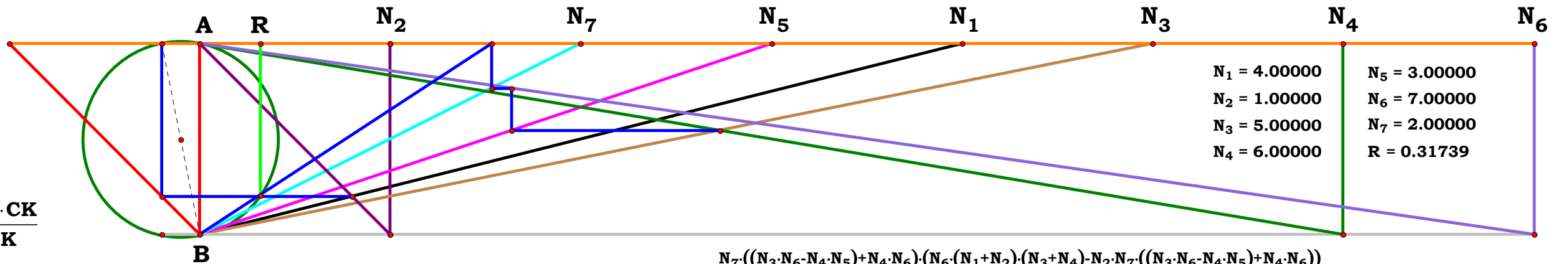
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.75053 \quad N_2 := .92724 \quad N_3 := 2.99504 \quad N_4 := 2.62462$$

$$N_5 := 2.29553 \quad N_6 := 3.35128 \quad N_7 := 1.21072$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$



$$\begin{aligned} N_1 &= 4.00000 & N_5 &= 3.00000 \\ N_2 &= 1.00000 & N_6 &= 7.00000 \\ N_3 &= 5.00000 & N_7 &= 2.00000 \\ N_4 &= 6.00000 & R &= 0.31739 \end{aligned}$$

$$\frac{N_7 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) \cdot (N_6 \cdot (N_1 + N_2) \cdot (N_3 + N_4) - N_2 \cdot N_7 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6))}{(N_1 + N_2) \cdot (N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)^2)} - R = 0.00000$$

Definitions.

$$R - \frac{N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) \cdot [N_6 \cdot (N_3 + N_4) \cdot (N_1 + N_2) - N_2 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)]}{(N_1 + N_2) \cdot [N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

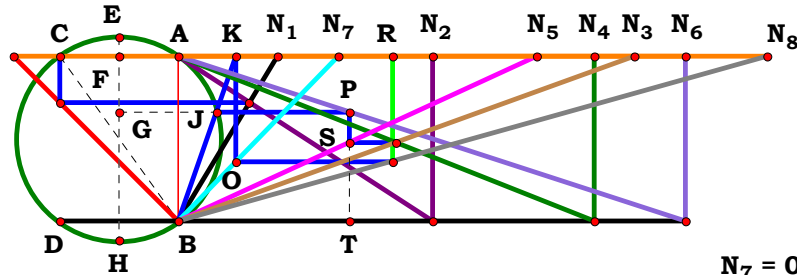
$$R - \frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot [G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E]]}{(A + B) \cdot [G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2]} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot [Y \cdot n \cdot (V \cdot m + W \cdot l) \cdot (T \cdot k \cdot p - U \cdot Z \cdot j + U \cdot j \cdot p) + U \cdot W \cdot X \cdot Z \cdot j \cdot l \cdot o]}{(T \cdot k + U \cdot j) \cdot [Y^2 \cdot n^2 \cdot (Z^2 + p^2) \cdot (V \cdot m + W \cdot l)^2 - 2 \cdot Y \cdot W \cdot X \cdot Z^2 \cdot l \cdot n \cdot o \cdot (V \cdot m + W \cdot l) + W^2 \cdot X^2 \cdot Z^2 \cdot l^2 \cdot o^2]} = 0$$



4RST6AB4R5



$N_7 = 0.96858$

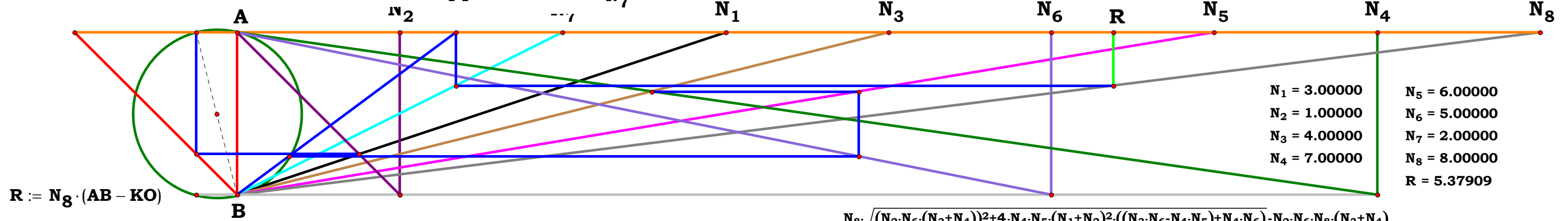
Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$N_1 = 0.59793 \quad N_3 = 2.76258 \quad N_5 = 2.16962 \quad N_8 = 3.56437$
 $N_2 = 1.53745 \quad N_4 = 2.51808 \quad N_6 = 3.07039 \quad R = 1.29958$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST \quad PT := \frac{N_6 - BT}{N_7 - AK}$$

$$GH := PT + EF \quad GJ := \sqrt{GH \cdot (EH - GH)} \quad AK := \frac{(GJ - AF)}{PT} \quad KO := \frac{N_7 - AK}{N_7}$$



$$R := N_8 \cdot (AB - KO)$$

$$R = 1.299587$$

Definitions.

$$R - \frac{N_8 \cdot \sqrt{N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_2 \cdot N_6 \cdot N_8 \cdot (N_3 + N_4)}{2 \cdot (N_1 + N_2) \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D) \right]}{2 \cdot H \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot o \cdot \left[\sqrt{4 \cdot V \cdot W \cdot k \cdot n \cdot (T \cdot h + S \cdot j)^2 \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) + T^2 \cdot X^2 \cdot h^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - T \cdot X \cdot h \cdot m \cdot (U \cdot l + V \cdot k) \right]}{2 \cdot Y \cdot p \cdot (T \cdot h + S \cdot j) \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$

Unit. $AB := 1$ Given. $N_1 := .59793 \quad N_2 := 1.53745 \quad N_3 := 2.76258 \quad N_4 := 2.51808$

$N_5 := 2.16962 \quad N_6 := 3.07039 \quad N_7 := .96858 \quad N_8 := 3.56437$

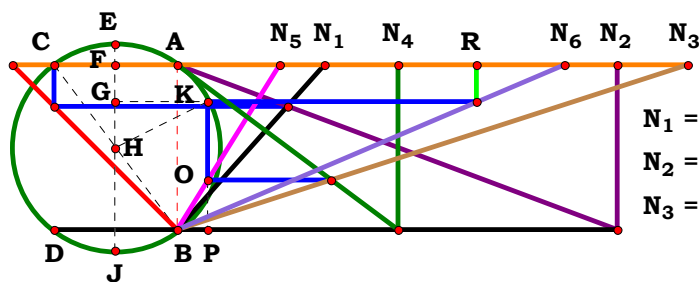
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$

$N_1 = 3.00000 \quad N_5 = 6.00000$
 $N_2 = 1.00000 \quad N_6 = 5.00000$
 $N_3 = 4.00000 \quad N_7 = 2.00000$
 $N_4 = 7.00000 \quad N_8 = 8.00000$
 $R = 5.37909$

$$\frac{N_8 \cdot \sqrt{(N_2 \cdot N_6 \cdot (N_3 + N_4))^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - N_2 \cdot N_6 \cdot N_8 \cdot (N_3 + N_4)}{2 \cdot N_7 \cdot (N_1 + N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 0.88850 & N_4 &= 1.33641 \\ N_2 &= 2.66100 & N_5 &= 0.61989 \\ N_3 &= 3.09190 & N_6 &= 2.34396 \\ R &= 1.81285 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .88850 \quad N_2 := 2.66100 \quad N_3 := 3.09190$$

$$N_4 := 1.33641 \quad N_5 := .61989 \quad N_6 := 2.34396$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

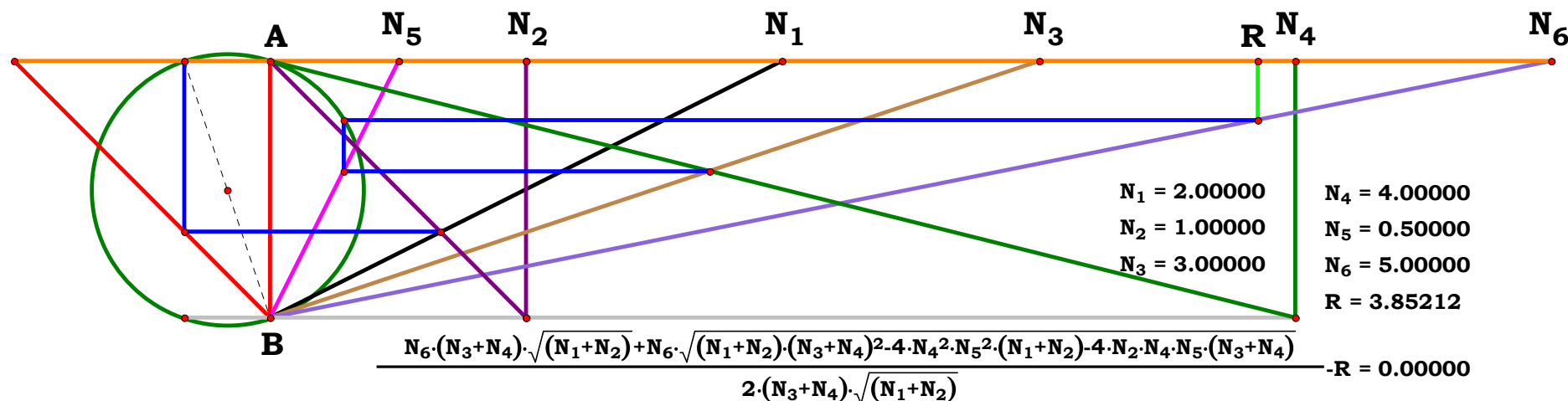
$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP$$

$$GH := \sqrt{HK^2 - GK^2} \quad KP := GH + HK - EF$$

$$R := N_6 \cdot KP \quad R = 1.812854$$



$$\begin{aligned} N_1 &= 2.00000 & N_4 &= 4.00000 \\ N_2 &= 1.00000 & N_5 &= 0.50000 \\ N_3 &= 3.00000 & N_6 &= 5.00000 \\ R &= 3.85212 \end{aligned}$$

$$\frac{N_6 \cdot (N_3 + N_4) \cdot \sqrt{(N_1 + N_2)} + N_6 \cdot \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)}}{2 \cdot (N_3 + N_4) \cdot \sqrt{(N_1 + N_2)}} - R = 0.00000$$

Definitions.

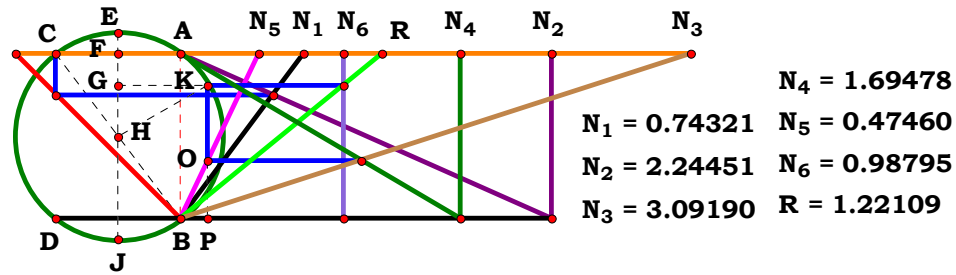
$$R - \frac{N_6 \cdot \left[\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2) - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)} \right]}{2 \cdot (N_3 + N_4) \cdot \sqrt{N_1 + N_2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{N_u \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (C + D) \cdot (A + B) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + \sqrt{\left[N_u \cdot (A + B) \right] \cdot E \cdot (C + D)} \right]}{2 \cdot \sqrt{\left[N_u \cdot (A + B) \right] \cdot F \cdot (C + D) \cdot E}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y^2 \cdot X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y \cdot V \cdot X \cdot k \cdot m \cdot o \cdot (W \cdot n + X \cdot m)} + \sqrt{U \cdot l + V \cdot k \cdot o \cdot (W \cdot n + X \cdot m)} \right]}{2 \cdot p \cdot \sqrt{U \cdot l + V \cdot k \cdot (W \cdot n + X \cdot m) \cdot o}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .74321$ $N_2 := 2.24451$ $N_3 := 3.09190$

$N_4 := 1.69478$ $N_5 := .47460$ $N_6 := .98795$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

Descriptions.

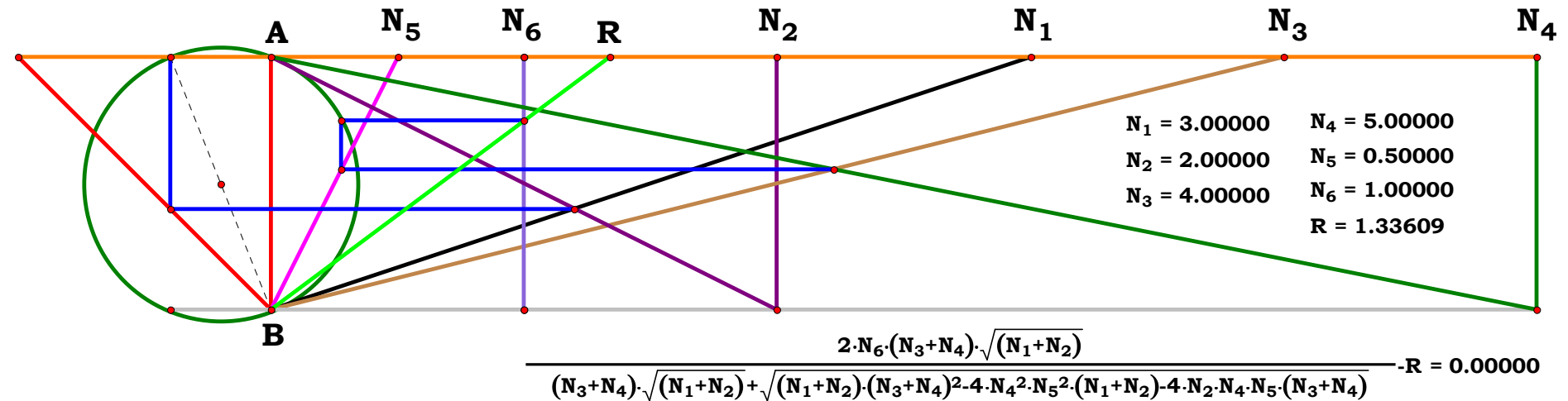
$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP$$

$$GH := \sqrt{HK^2 - GK^2} \quad KP := GH + HK - EF$$

$$R := \frac{N_6}{KP} \quad R = 1.221089$$



Definitions.

$$R - \frac{2 \cdot N_6 \cdot \sqrt{N_1 + N_2} \cdot (N_3 + N_4)}{\sqrt{N_1 + N_2} \cdot (N_3 + N_4) + \sqrt{(N_1 + N_2) \cdot (N_3 + N_4)^2 - 4 \cdot N_4^2 \cdot N_5^2 \cdot (N_1 + N_2)} - 4 \cdot N_2 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

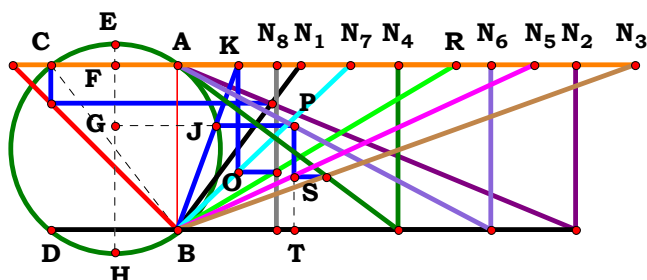
$$R - \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Z \cdot \sqrt{U \cdot l + V \cdot k} \cdot (W \cdot n + X \cdot m) \cdot o}{p \cdot \left[\sqrt{o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l + V \cdot k)} - 4 \cdot Y^2 \cdot X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k) - 4 \cdot Y \cdot V \cdot X \cdot k \cdot m \cdot o \cdot (W \cdot n + X \cdot m) + \sqrt{U \cdot l + V \cdot k} \cdot o \cdot (W \cdot n + X \cdot m) \right]} = 0$$



4RST6AB4R8



$N_7 = 1.04606$

$N_1 = 0.74321$ $N_3 = 2.77227$ $N_5 = 2.15993$ $N_8 = 0.59870$
 $N_2 = 2.41649$ $N_4 = 1.33641$ $N_6 = 1.89841$ $R = 1.68944$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST \quad PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT}$$

$$KO := \frac{N_7 - AK}{N_7} \quad R := \frac{N_8}{AB - KO}$$

$$R = 1.689429$$

Definitions.

$$R - \frac{2 \cdot N_7 \cdot N_8 \cdot (N_1 + N_2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) + N_2^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 - N_2 \cdot N_6 \cdot (N_3 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]}{G \cdot H \cdot \left[\sqrt{4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E] + A^2 \cdot E^2 \cdot (C + D)^2} - A \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot (T \cdot h + S \cdot j) \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{o \cdot p \cdot \left[\sqrt{4 \cdot V \cdot W \cdot k \cdot n \cdot (T \cdot h + S \cdot j)^2 \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m) + T^2 \cdot X^2 \cdot h^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - T \cdot X \cdot h \cdot m \cdot (U \cdot l + V \cdot k) \right]} = 0$$

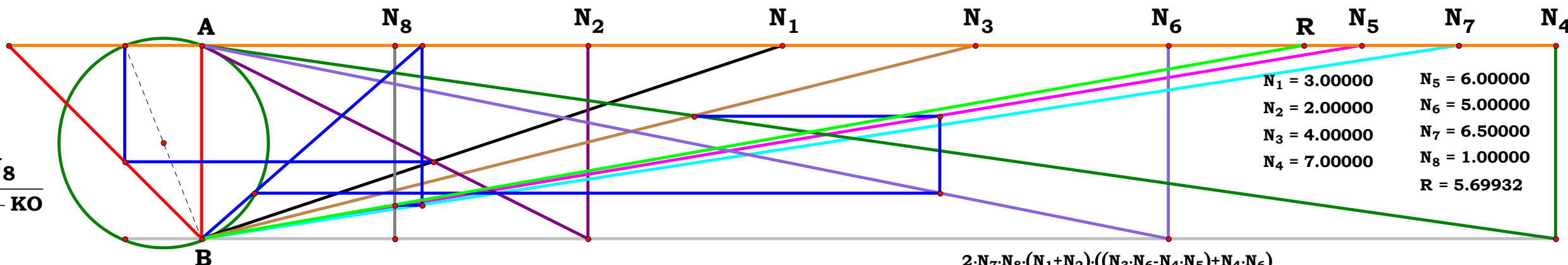
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .74321 \quad N_2 := 2.41649 \quad N_3 := 2.77227 \quad N_4 := 1.33641$$

$$N_5 := 2.15993 \quad N_6 := 1.89841 \quad N_7 := 1.04606 \quad N_8 := .59870$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

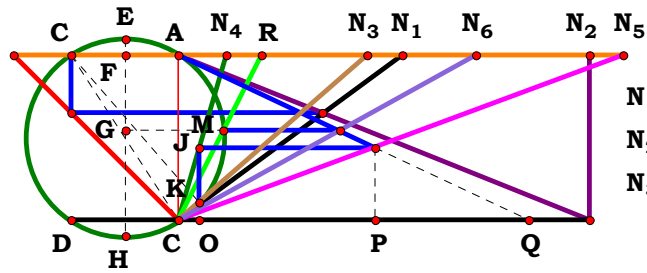
$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$



$N_1 = 3.00000$ $N_5 = 6.00000$
 $N_2 = 2.00000$ $N_6 = 5.00000$
 $N_3 = 4.00000$ $N_7 = 6.50000$
 $N_4 = 7.00000$ $N_8 = 1.00000$
 $R = 5.69932$

$$\frac{2 \cdot N_7 \cdot N_8 \cdot (N_1 + N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)}{\sqrt{4 \cdot N_4 \cdot N_5 \cdot (N_1 + N_2)^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) + (N_2 \cdot N_6 \cdot (N_3 + N_4))^2 - N_2 \cdot N_6 \cdot (N_3 + N_4)}} - R = 0.00000$$



$$\begin{aligned} N_1 &= 1.35342 & N_5 &= 2.69265 \\ N_2 &= 2.48665 & N_6 &= 1.80156 \\ N_3 &= 1.14506 & R &= 0.49974 \\ N_4 &= 0.29034 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 \quad \text{Given.} & N_1 &:= 1.35342 & N_2 &:= 2.48665 & N_3 &:= 1.14506 \\ & & N_4 &:= .29034 & N_5 &:= 2.69265 & N_6 &:= 1.80156 \end{aligned}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

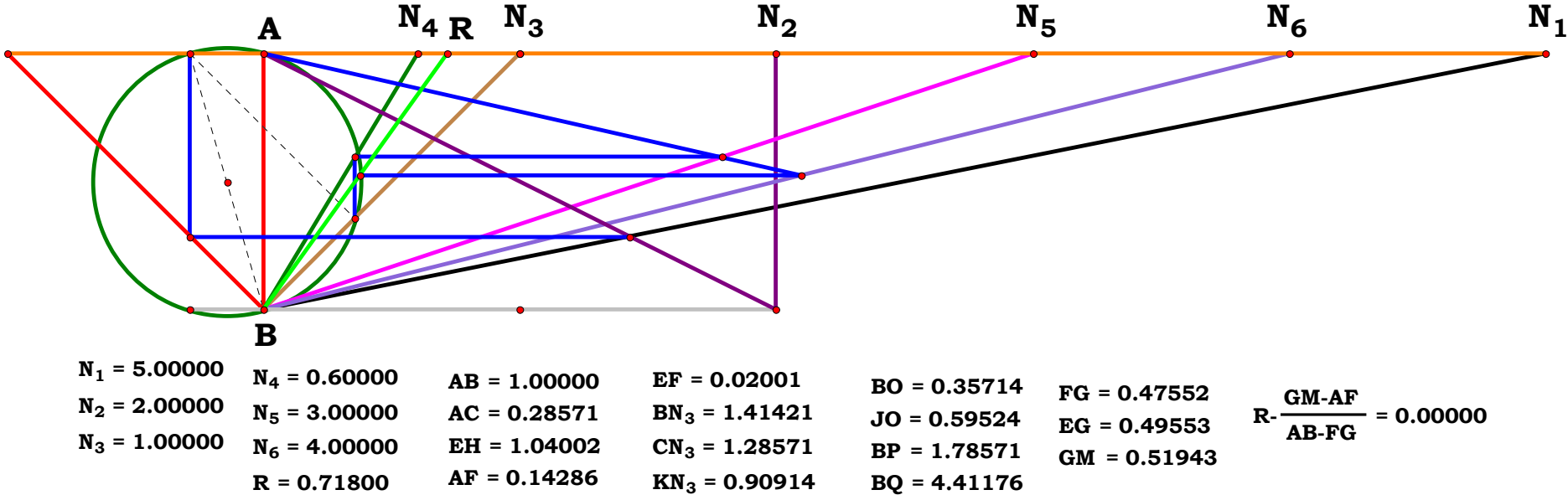
$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

$$R := \frac{GM - AF}{AB - FG} \quad R = 0.499729$$

Definitions.

$$\begin{aligned} R - \frac{(N_1 + N_2)^2 \cdot \sqrt{N_2^2 \cdot N_6^2 \cdot [N_3^2 \cdot [N_2 + N_4 \cdot (N_1 + N_2)] - (N_3 - N_4) \cdot (N_1 + N_2)]^2 + N_2^2 \cdot N_3^2 \cdot N_5^2 \cdot (N_1 + N_2 - N_2 \cdot N_3)^2} \dots}{2 \cdot N_3 \cdot N_5 \cdot (N_1 + N_2 - N_2 \cdot N_3) \cdot (N_1 + N_2)^3} = 0 \end{aligned}$$



$$\begin{aligned} N_1 &= 5.00000 & N_4 &= 0.60000 & AB &= 1.00000 & EF &= 0.02001 & BO &= 0.35714 & FG &= 0.47552 & R - \frac{GM - AF}{AB - FG} &= 0.00000 \\ N_2 &= 2.00000 & N_5 &= 3.00000 & AC &= 0.28571 & BN_3 &= 1.41421 & JO &= 0.59524 & EG &= 0.49553 & & \\ N_3 &= 1.00000 & N_6 &= 4.00000 & EH &= 1.04002 & CN_3 &= 1.28571 & BP &= 1.78571 & GM &= 0.51943 & & \\ & & R &= 0.71800 & AF &= 0.14286 & KN_3 &= 0.90914 & BQ &= 4.41176 & & & & \end{aligned}$$



4RST6AB4R10

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$FH := N_5 \cdot FG \quad BJ := \frac{FH}{(AB - FG)}$$

$$BO := \frac{N_6 \cdot BJ}{N_6 + BJ} \quad KO := \frac{N_7 - BO}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 1.608696$$

Definitions.

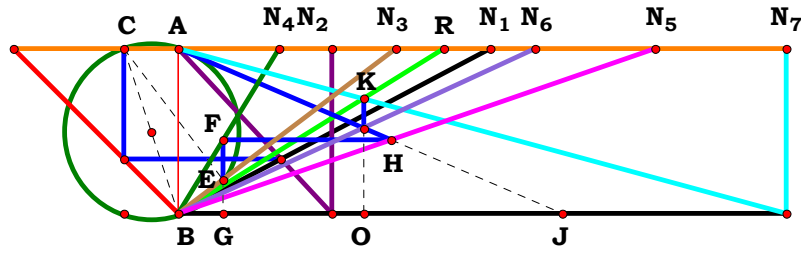
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2 - N_2 \cdot N_3)}{N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) - N_3 \cdot (N_5 \cdot N_6 - N_5 \cdot N_7 + N_6 \cdot N_7) \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G] \cdot (A + B) + A \cdot D \cdot N_u \cdot (E - F + G)} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot m \cdot (T \cdot k \cdot l - U \cdot V \cdot j + U \cdot j \cdot l)}{W \cdot Y \cdot Z \cdot n \cdot (V^2 + l^2) \cdot (T \cdot k + U \cdot j) + V \cdot m \cdot (X \cdot Y \cdot p - X \cdot Z \cdot o + Y \cdot Z \cdot n) \cdot (U \cdot V \cdot j - T \cdot k \cdot l - U \cdot j \cdot l)} = 0$$



$$N_1 = 1.88613 \quad N_3 = 1.31940 \quad N_5 = 2.88636 \quad N_7 = 3.68060$$

$$N_2 = 0.92724 \quad N_4 = 0.60998 \quad N_6 = 2.15993 \quad R = 1.60871$$

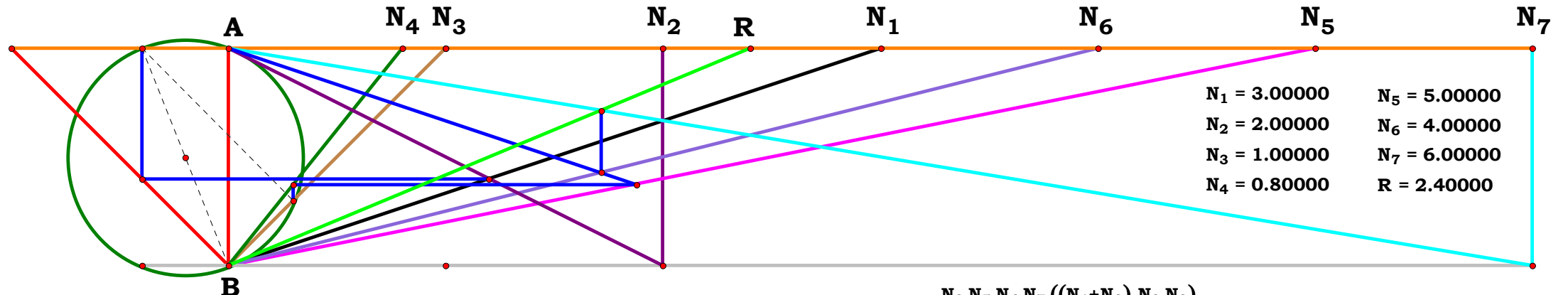
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.88613 \quad N_2 := .92724 \quad N_3 := 1.31940 \quad N_4 := .60998$$

$$N_5 := 2.88636 \quad N_6 := 2.15993 \quad N_7 := 3.68060$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$



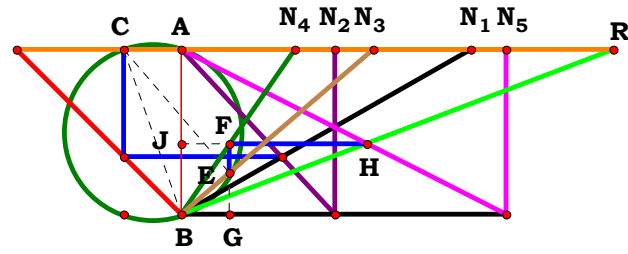
$$N_1 = 3.00000 \quad N_5 = 5.00000$$

$$N_2 = 2.00000 \quad N_6 = 4.00000$$

$$N_3 = 1.00000 \quad N_7 = 6.00000$$

$$N_4 = 0.80000 \quad R = 2.40000$$

$$\frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot ((N_1 + N_2) - N_2 \cdot N_3)}{N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) - N_3 \cdot ((N_5 \cdot N_6 - N_5 \cdot N_7) + N_6 \cdot N_7) \cdot ((N_1 + N_2) - N_2 \cdot N_3)} \cdot R = 0.00000$$



$N_1 = 1.75053$
 $N_2 = 0.92724$
 $N_3 = 1.16443$
 $N_4 = 0.68746$
 $N_5 = 1.96621$
 $R = 2.61627$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.16443$

$N_4 := .68746$ $N_5 := 1.96621$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$EN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3}$$

$$FG := \frac{BG}{N_4} \quad HJ := N_5 \cdot (AB - FG)$$

$$R := \frac{HJ}{FG} \quad R = 2.616258$$

Definitions.

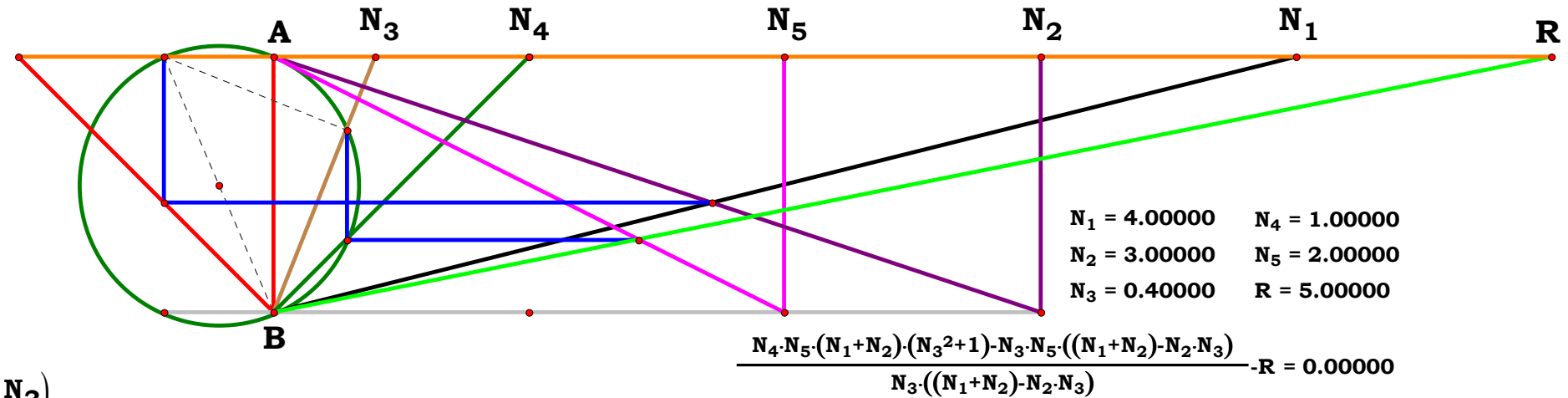
$$R - \frac{N_4 \cdot N_5 \cdot (N_3^2 + 1) \cdot (N_1 + N_2) - N_3 \cdot N_5 \cdot (N_1 + N_2 - N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

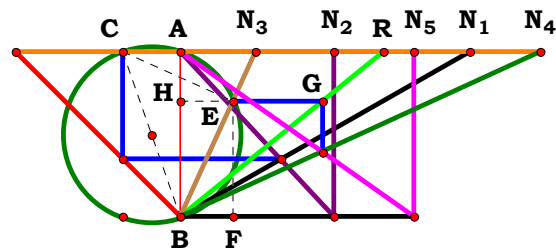
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u]}{D \cdot E \cdot (A \cdot C + B \cdot C - A \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + X \cdot o \cdot (W \cdot X \cdot l - V \cdot m \cdot n - W \cdot l \cdot n)]}{X \cdot o \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$





$N_1 = 1.75053$
 $N_2 = 0.92724$
 $N_3 = 0.45737$
 $N_4 = 2.17907$
 $N_5 = 1.41412$
 $R = 1.23212$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := .45737$

$N_4 := 2.17907$ $N_5 := 1.41412$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{(BN_3 - EN_3)}{BN_3} \quad HG := \frac{N_5 \cdot N_4}{N_5 + N_4}$$

$$R := \frac{HG}{EF} \quad R = 1.232118$$

Definitions.

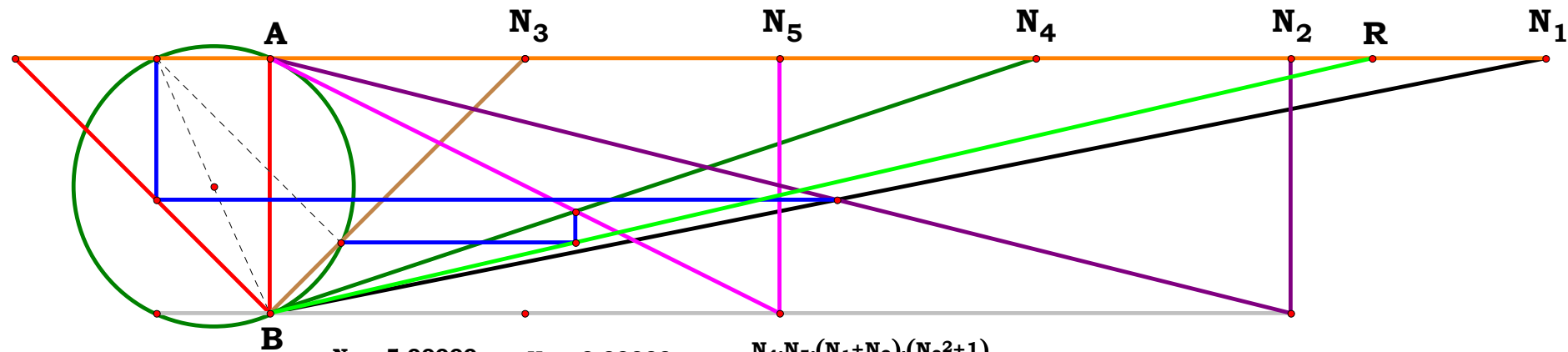
$$R - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (D + E) \cdot [C \cdot (A + B) - A \cdot N_u]} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

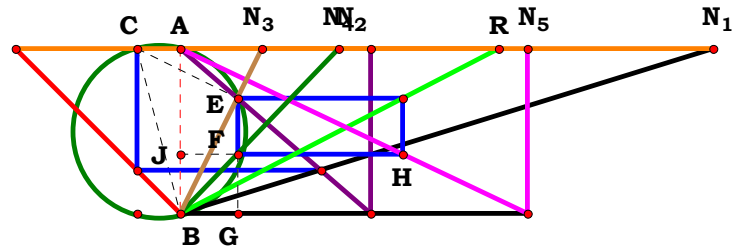
$$R - \frac{Y \cdot Z \cdot (V \cdot m + W \cdot l) \cdot (X^2 + n^2)}{n \cdot (Y \cdot p + Z \cdot o) \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 5.00000$
 $N_2 = 4.00000$
 $N_3 = 1.00000$

$N_4 = 3.00000$
 $N_5 = 2.00000$
 $R = 4.32000$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot ((N_1 + N_2) - N_2 \cdot N_3)} \cdot R = 0.00000$$



$N_1 = 3.22277$
 $N_2 = 1.15002$
 $N_3 = 0.49611$
 $N_4 = 0.95866$
 $N_5 = 2.10182$
 $R = 1.92444$

Unit. $AB := 1$ Given. $N_1 := 3.22277$ $N_2 := 1.15002$ $N_3 := .49611$

$N_4 := .958666$ $N_5 := 2.10182$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG) \quad EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 1.924444$$

Definitions.

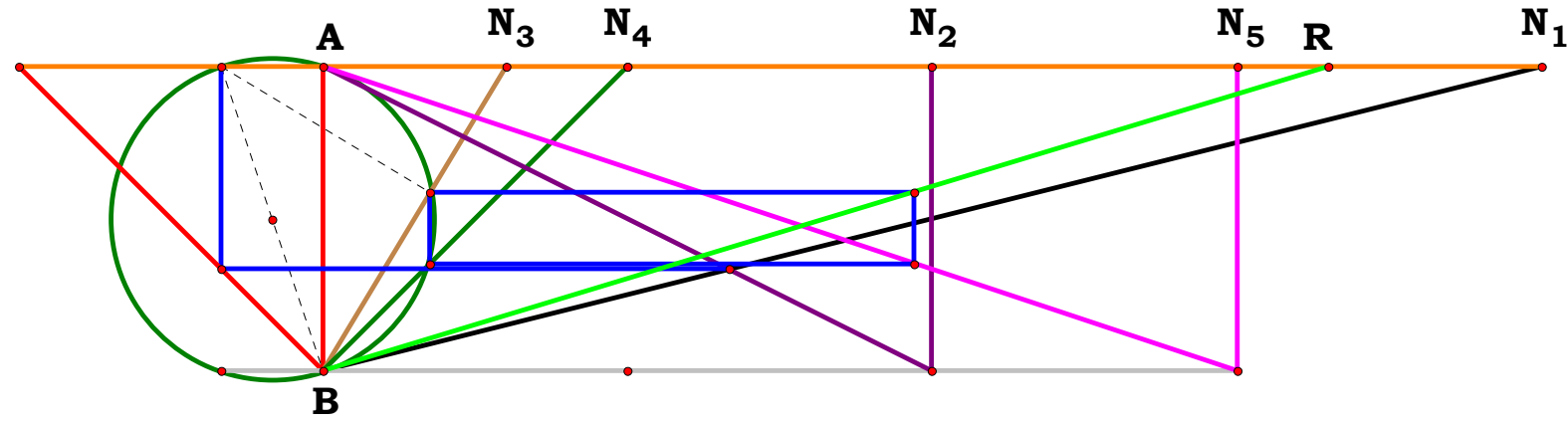
$$R - \frac{N_2 \cdot N_3^2 \cdot N_5 + N_5 \cdot (N_3^2 \cdot N_4 - N_3 + N_4) \cdot (N_1 + N_2)}{N_4 \cdot (N_1 + N_2 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [(C^2 + N_u^2) \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]}{C \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]} = 0$$

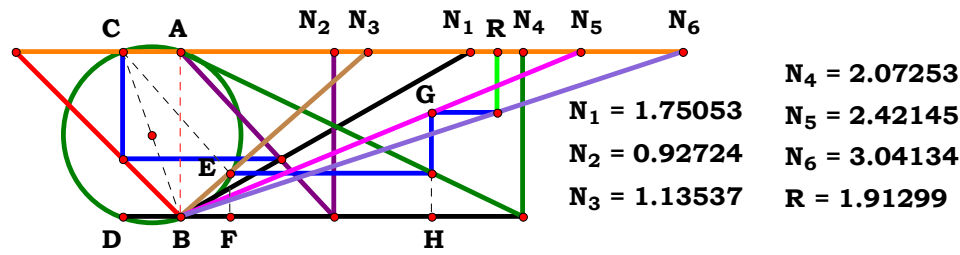
$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [Y \cdot (X^2 + n^2) \cdot (V \cdot m + W \cdot l) + X \cdot o \cdot (W \cdot X \cdot l - V \cdot m \cdot n - W \cdot l \cdot n)]}{Y \cdot n \cdot p \cdot (V \cdot m \cdot n - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



$N_1 = 4.00000$ $N_4 = 1.00000$
 $N_2 = 2.00000$ $N_5 = 3.00000$
 $N_3 = 0.60000$ $R = 3.30000$

$$\frac{N_2 \cdot N_3^2 \cdot N_5 + N_5 \cdot ((N_3^2 \cdot N_4 - N_3) + N_4) \cdot (N_1 + N_2)}{N_4 \cdot ((N_1 + N_2) - N_2 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.13537$
 $N_4 := 2.07253$ $N_5 := 2.42145$ $N_6 := 3.04134$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

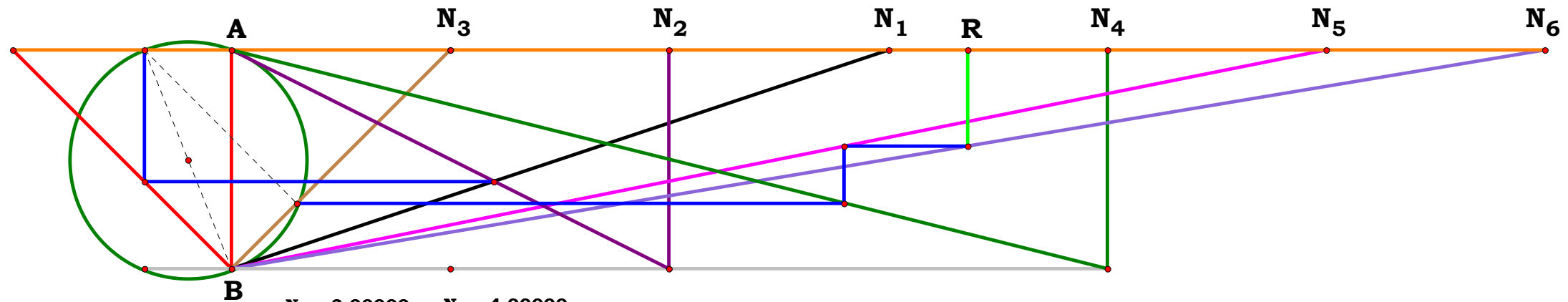
$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3}$$

$$BH := N_4 \cdot (AB - EF) \quad GH := \frac{BH}{N_5}$$

$$R := N_6 \cdot GH \quad R = 1.912992$$



Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

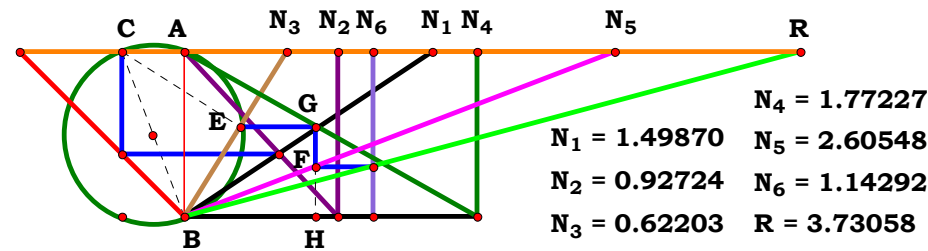
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{E \cdot N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (U \cdot W \cdot l + V \cdot W \cdot k + V \cdot k \cdot m)}{Y \cdot n \cdot p \cdot (U \cdot l + V \cdot k) \cdot (W^2 + m^2)} = 0$$

$$\frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_5 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.49870$ $N_2 := .92724$ $N_3 := .62203$
 $N_4 := 1.77227$ $N_5 := 2.60548$ $N_6 := 1.14292$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$k := \frac{U}{N_1}$ $l := \frac{V}{N_2}$ $m := \frac{W}{N_3}$ $n := \frac{X}{N_4}$ $o := \frac{Y}{N_5}$ $p := \frac{Z}{N_6}$

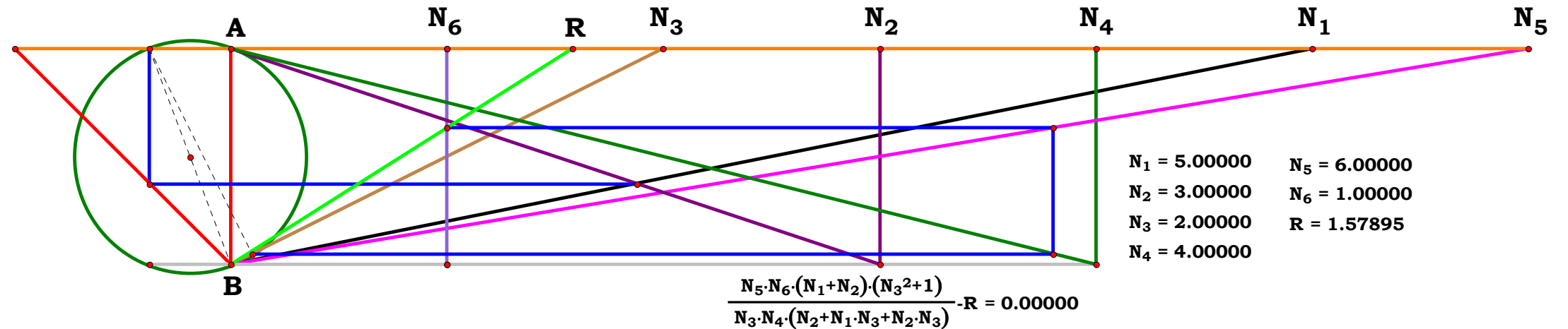
$AC := \frac{N_2}{N_1 + N_2}$ $BN_3 := \sqrt{N_3^2 + AB^2}$

$CN_3 := N_3 + AC$ $EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$

$GH := \frac{BN_3 - EN_3}{BN_3}$

$BH := N_4 \cdot (AB - GH)$

$FH := \frac{BH}{N_5}$ $R := \frac{N_6}{FH}$ $R = 3.73055$



Definitions.

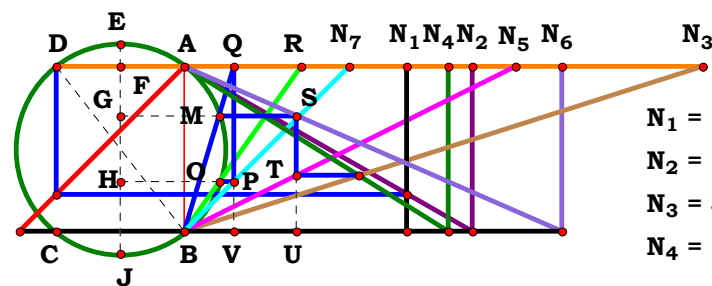
$R - \frac{N_5 \cdot N_6 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$ $N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$ $N_5 - \frac{N_u}{E} = 0$ $N_6 - \frac{N_u}{F} = 0$

$R - \frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot F \cdot [A \cdot C + N_u \cdot (A + B)]} = 0$

$N_1 - \frac{U}{k} = 0$ $N_2 - \frac{V}{l} = 0$ $N_3 - \frac{W}{m} = 0$ $N_4 - \frac{X}{n} = 0$ $N_5 - \frac{Y}{o} = 0$ $N_6 - \frac{Z}{p} = 0$

$R - \frac{Y \cdot Z \cdot n \cdot (U \cdot l + V \cdot k) \cdot (W^2 + m^2)}{W \cdot X \cdot o \cdot p \cdot (U \cdot W \cdot l + V \cdot W \cdot k + V \cdot k \cdot m)} = 0$



$N_1 = 1.34373$ $N_5 = 2.00496$
 $N_2 = 1.74085$ $N_6 = 2.28585$
 $N_3 = 3.14033$ $N_7 = 0.99764$
 $N_4 = 1.59793$ $R = 0.70882$

Unit. $AB := 1$ Given. $N_1 := 1.34373$ $N_2 := 1.74085$ $N_3 := 3.14033$
 $N_4 := 1.59793$ $N_5 := 2.00496$ $N_6 := 2.28585$ $N_7 := .99764$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

$$TU := \frac{N_4}{N_3 + N_4}$$

$$BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6}$$

$$GJ := SU + EF$$

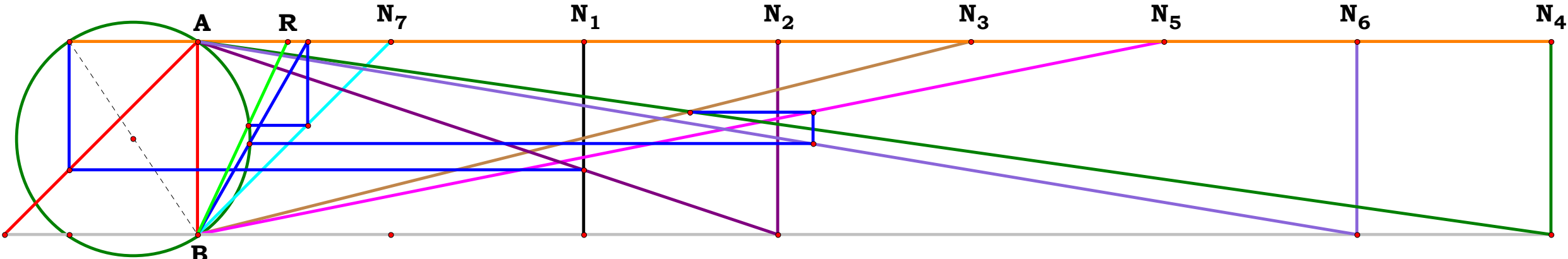
$$GK := \sqrt{GJ \cdot (EJ - GJ)}$$

$$AQ := \frac{GK - AF}{SU}$$

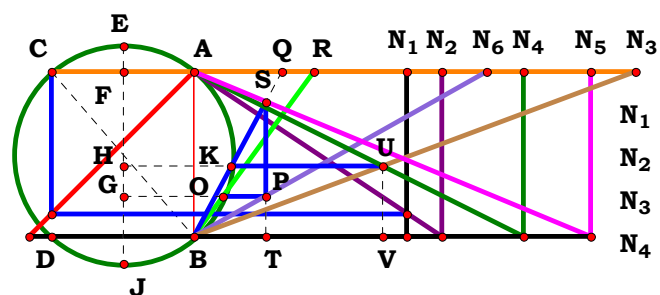
$$PV := \frac{AQ}{N_7} \qquad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \qquad R := \frac{HO - AF}{PV}$$

$$R = 0.708821$$



$N_1 = 2.00000$	$N_5 = 5.00000$	$AB = 1.00000$	$EF = 0.10093$	$GJ = 0.57062$	$HJ = 0.66901$
$N_2 = 3.00000$	$N_6 = 6.00000$	$AC = 0.66667$	$TU = 0.63636$	$GK = 0.60016$	$HO = 0.59706$
$N_3 = 4.00000$	$N_7 = 1.00000$	$EJ = 1.20185$	$BU = 3.18182$	$AQ = 0.56808$	$R - \frac{HO - AF}{PV} = 0.00000$
$N_4 = 7.00000$	$R = 0.46423$	$AF = 0.33333$	$SU = 0.46970$	$PV = 0.56808$	



Unit. AB := 1 Given. $N_1 := 1.28562$ $N_2 := 1.49870$ $N_3 := 2.67541$
 $N_4 := 1.99504$ $N_5 := 2.40207$ $N_6 := 1.77250$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \qquad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

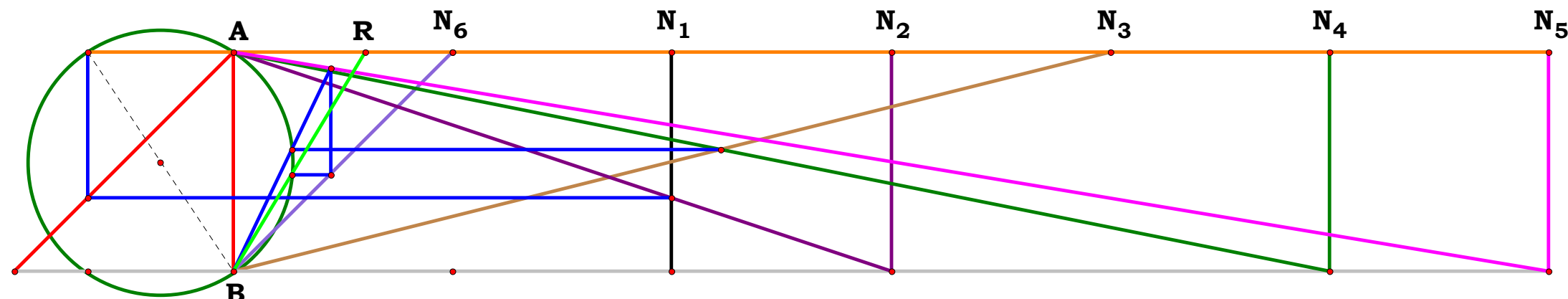
$$\mathbf{UV} := \frac{\mathbf{N}_4}{\mathbf{N}_3 + \mathbf{N}_4} \quad \mathbf{HJ} := \mathbf{UV} + \mathbf{EF}$$

$$\mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})} \quad \mathbf{AQ} := \frac{\mathbf{HK} - \mathbf{AF}}{\mathbf{UV}}$$

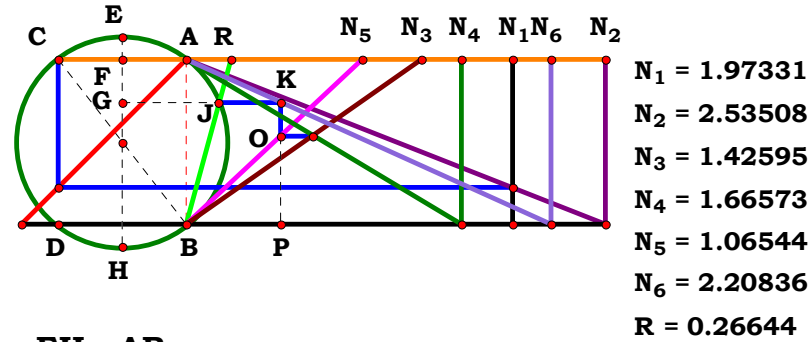
$$\mathbf{BT} := \frac{\mathbf{AQ} \cdot \mathbf{N}_5}{\mathbf{AQ} + \mathbf{N}_5} \quad \mathbf{PT} := \frac{\mathbf{BT}}{\mathbf{N}_6}$$

$$\mathbf{GJ} := \mathbf{PT} + \mathbf{EF} \quad \mathbf{GO} := \sqrt{\mathbf{GJ} \cdot (\mathbf{EJ} - \mathbf{GJ})}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.729244$$



N₁ = 2.00000	N₅ = 6.00000	AB = 1.00000	EF = 0.10093	AQ = 0.47703	GO = 0.59811
N₂ = 3.00000	N₆ = 1.00000	AC = 0.66667	UV = 0.55556	BT = 0.44190	R-$\frac{GO-AF}{PT}$ = 0.00000
N₃ = 4.00000	R = 0.59918	EJ = 1.20185	HJ = 0.65648	PT = 0.44190	
N₄ = 5.00000		AF = 0.33333	HK = 0.59835	GJ = 0.54282	



Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.53508$ $N_3 := 1.42595$
 $N_4 := 1.66573$ $N_5 := 1.06544$ $N_6 := 2.20836$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

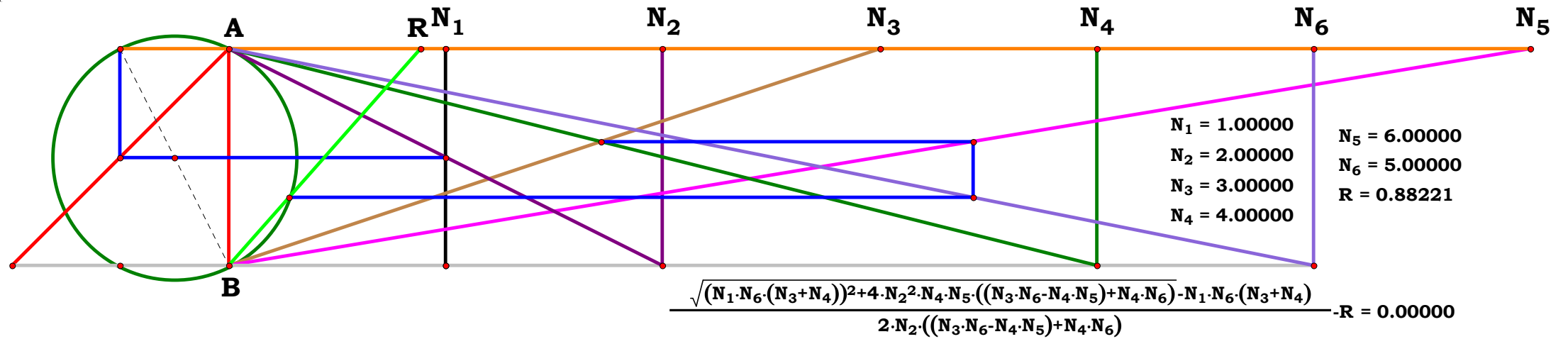
$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad EF := \frac{EH - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$KP := AB - \frac{BP}{N_6} \quad GH := KP + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GJ - AF}{KP} \quad R = 0.266443$$



Definitions.

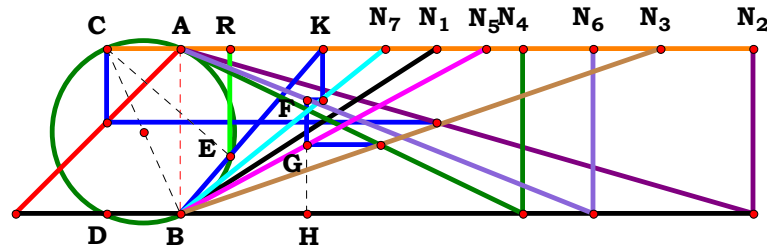
$$R - \frac{\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) - N_1 \cdot N_6 \cdot (N_3 + N_4)}}{2 \cdot N_2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2 - B \cdot E \cdot (C + D)}}{2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{4 \cdot Y \cdot V^2 \cdot X \cdot Z \cdot k^2 \cdot m \cdot o \cdot p \cdot (W \cdot n + X \cdot m) - 4 \cdot V^2 \cdot X^2 \cdot k^2 \cdot m^2 \cdot p^2 \cdot Y^2 + U^2 \cdot Z^2 \cdot l^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 - U \cdot Z \cdot l \cdot o \cdot (W \cdot n + X \cdot m)}}{2 \cdot V \cdot k \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.54713$ $N_2 := 3.46492$ $N_3 := 2.90787$ $N_4 := 2.07253$
 $N_5 := 1.84998$ $N_6 := 2.49893$ $N_7 := 1.23978$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$N_1 = 1.54713$ $N_3 = 2.90787$ $N_5 = 1.84998$ $N_7 = 1.23978$
 $N_2 = 3.46492$ $N_4 = 2.07253$ $N_6 = 2.49893$ $R = 0.30489$

$$AC := \frac{N_1}{N_2} \quad GH := \frac{N_4}{N_3 + N_4} \quad BH := N_5 \cdot GH$$

$$FH := \frac{N_6 - BH}{N_6}$$

$$AK := N_7 \cdot FH$$

$$BK := \sqrt{AK^2 + AB^2}$$

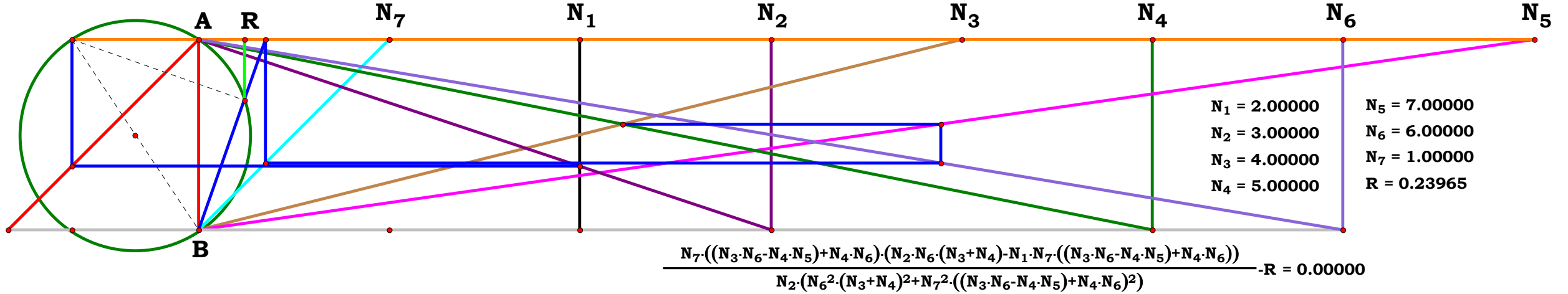
$$CK := AK + AC$$

$$EK := \frac{AK \cdot CK}{BK}$$

$$R := AK \cdot \frac{(BK - EK)}{BK} \quad R = 0.30489$$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$j := \frac{T}{N_1}$ $k := \frac{U}{N_2}$ $l := \frac{V}{N_3}$ $m := \frac{W}{N_4}$ $n := \frac{X}{N_5}$ $o := \frac{Y}{N_6}$ $p := \frac{Z}{N_7}$



Definitions.

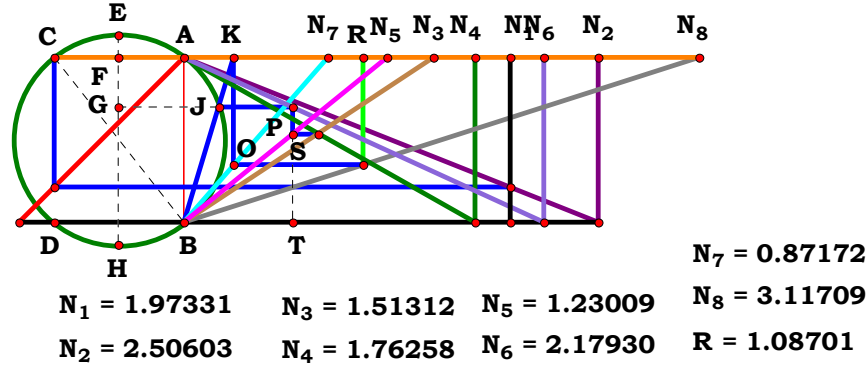
$$R - \frac{N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) \cdot [N_2 \cdot N_6 \cdot (N_3 + N_4) - N_1 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)]}{N_2 \cdot [N_6^2 \cdot (N_3 + N_4)^2 + N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]}{N_u^2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot [T \cdot W \cdot X \cdot Z \cdot k \cdot l \cdot o - Y \cdot n \cdot (T \cdot Z \cdot k - U \cdot j \cdot p) \cdot (V \cdot m + W \cdot l)]}{U \cdot j \cdot [Y^2 \cdot n^2 \cdot (Z^2 + p^2) \cdot (V \cdot m + W \cdot l)^2 - 2 \cdot Y \cdot W \cdot X \cdot Z^2 \cdot l \cdot n \cdot o \cdot (V \cdot m + W \cdot l) + W^2 \cdot X^2 \cdot Z^2 \cdot l^2 \cdot o^2]} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{(GJ - AF)}{PT} \quad KO := \frac{N_7 - AK}{N_7} \quad R := N_8 \cdot (AB - KO) \quad R = 1.087008$$

Definitions.

$$R - \frac{N_8 \cdot \left[\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_1 \cdot N_6 \cdot (N_3 + N_4) \right]}{2 \cdot N_2 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]}{2 \cdot A \cdot H \cdot [C \cdot (E - F) + D \cdot E]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

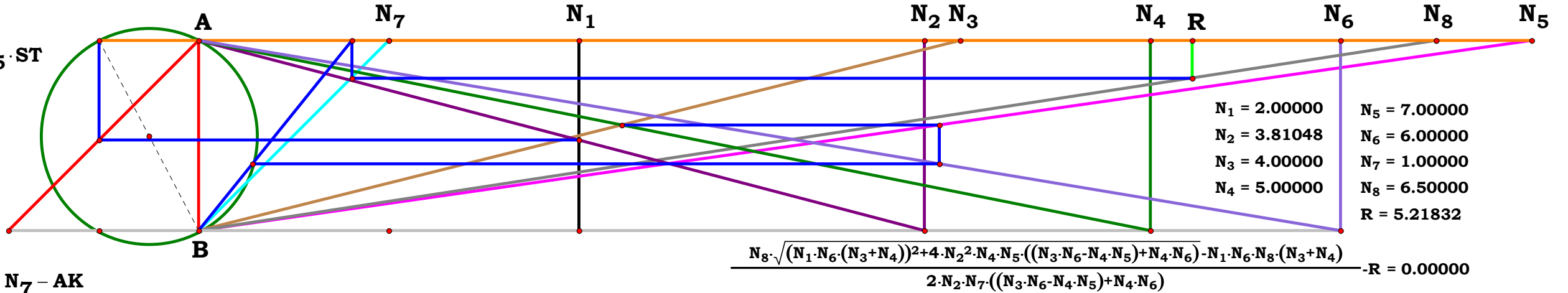
$$R - \frac{Z \cdot o \cdot \left[\sqrt{4 \cdot W \cdot T^2 \cdot V \cdot X \cdot h^2 \cdot k \cdot m \cdot n \cdot (U \cdot l + V \cdot k) - 4 \cdot T^2 \cdot V^2 \cdot h^2 \cdot k^2 \cdot n^2 \cdot W^2 + S^2 \cdot X^2 \cdot j^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - S \cdot U \cdot X \cdot j \cdot l \cdot m - S \cdot V \cdot X \cdot j \cdot k \cdot m \right]}{2 \cdot T \cdot Y \cdot h \cdot p \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)} = 0$$

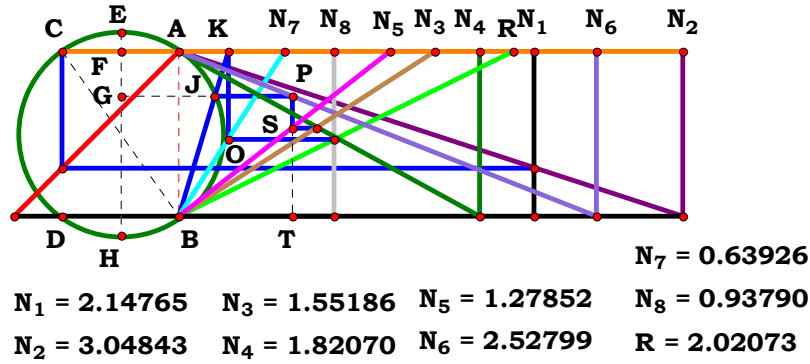
Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.50603$ $N_3 := 1.51312$ $N_4 := 1.76258$
 $N_5 := 1.23009$ $N_6 := 2.17930$ $N_7 := .87172$ $N_8 := 3.11709$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$





Descriptions.

$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT}$$

$$KO := \frac{N_7 - AK}{N_7} \quad R := \frac{N_8}{AB - KO} \quad R = 2.02073$$

Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_7 \cdot N_8 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{N_1^2 \cdot N_6^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} - N_1 \cdot N_6 \cdot (N_3 + N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot [C \cdot (E - F) + D \cdot E]}{G \cdot H \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

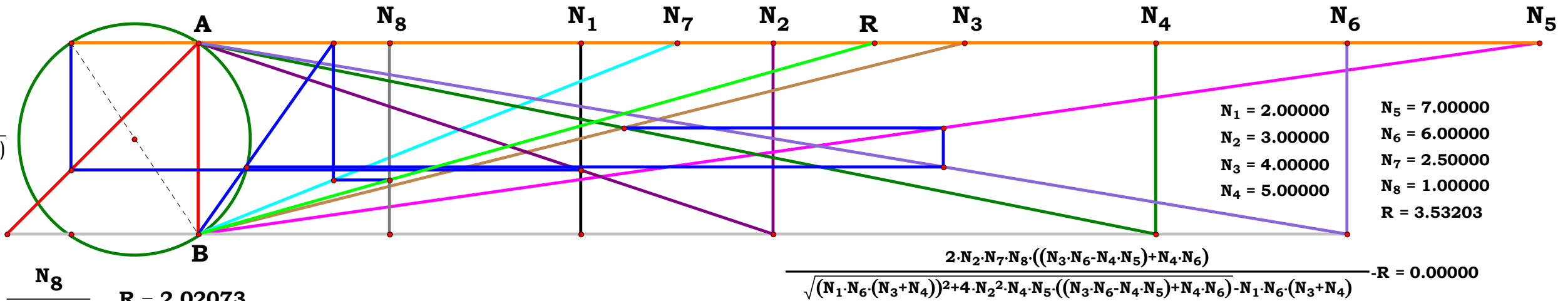
$$R - \frac{2 \cdot T \cdot Y \cdot Z \cdot h \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{o \cdot p \cdot \left[\sqrt{4 \cdot W \cdot T^2 \cdot V \cdot X \cdot h^2 \cdot k \cdot m \cdot n \cdot (U \cdot l + V \cdot k) - 4 \cdot T^2 \cdot V^2 \cdot h^2 \cdot k^2 \cdot n^2 \cdot W^2 + S^2 \cdot X^2 \cdot j^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2} - S \cdot U \cdot X \cdot j \cdot l \cdot m - S \cdot V \cdot X \cdot j \cdot k \cdot m \right]} = 0$$

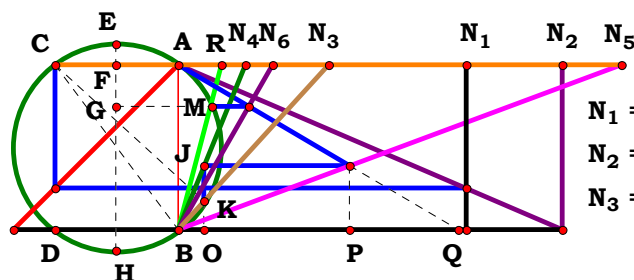
Unit. $AB := 1$ Given. $N_1 := 2.14765$ $N_2 := 3.04843$ $N_3 := 1.55186$ $N_4 := 1.82070$
 $N_5 := 1.27852$ $N_6 := 2.52799$ $N_7 := .63926$ $N_8 := .93790$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$





N₄ = 0.40657
N₅ = 2.68296
N₆ = 0.57146
R = 0.26613

Unit. AB := 1 Given. $N_1 := 1.74085$ $N_2 := 2.32200$ $N_3 := .91260$

$$\mathbf{N}_4 := .40657 \quad \mathbf{N}_5 := 2.68296 \quad \mathbf{N}_6 := .57146$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}}$$

U := 18 V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{k} := \frac{\mathbf{U}}{N_1} \quad \mathbf{l} := \frac{\mathbf{V}}{N_2} \quad \mathbf{m} := \frac{\mathbf{W}}{N_3} \quad \mathbf{n} := \frac{\mathbf{X}}{N_4} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_5} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_6}$$

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

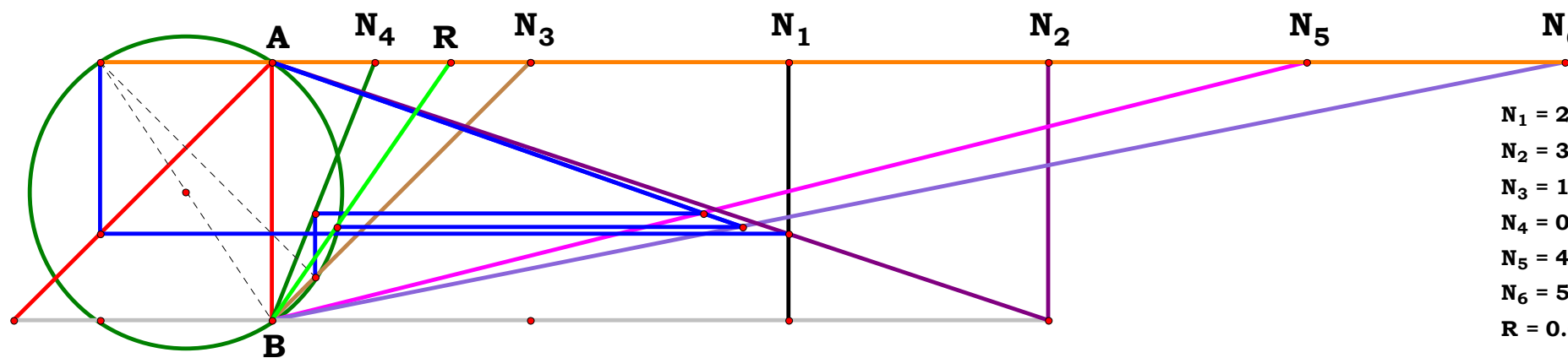
$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC}$$

$$\mathbf{KN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{BO} := \frac{\mathbf{N}_3 \cdot (\mathbf{BN}_3 - \mathbf{KN}_3)}{\mathbf{BN}_3}$$

$$\mathbf{JO} := \frac{\mathbf{BO}}{\mathbf{N}_4} \quad \mathbf{BP} := \mathbf{N}_5 \cdot \mathbf{JO}$$

$$\mathbf{BQ} := \frac{\mathbf{BP} \cdot \mathbf{AB}}{\mathbf{AB} - \mathbf{JO}} \quad \mathbf{FG} := \frac{\mathbf{N}_6}{\mathbf{BQ} + \mathbf{N}_6} \quad \mathbf{EG} := \mathbf{FG} + \mathbf{EF} \quad \mathbf{GM} := \sqrt{\mathbf{EG} \cdot (\mathbf{EH} - \mathbf{EG})} \quad \mathbf{R} := \frac{\mathbf{GM} - \mathbf{AF}}{\mathbf{AB} - \mathbf{FG}} \quad \mathbf{R} = 0.266125$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 1.00000
N₄ = 0.40000
N₅ = 4.00000
N₆ = 5.00000
R = 0.69277

$$\frac{N_1 \cdot (N_3 \cdot (N_5 - N_6) \cdot (N_2 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1)) - \sqrt{(N_1^2 + N_2^2) \cdot (N_3 \cdot (N_5 - N_6) \cdot (N_2 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1))^2 - N_2^2 \cdot (N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_5 + N_6) - N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1))^2}}{2 \cdot N_2 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_2)} - R = 0.00000$$

Definitions.

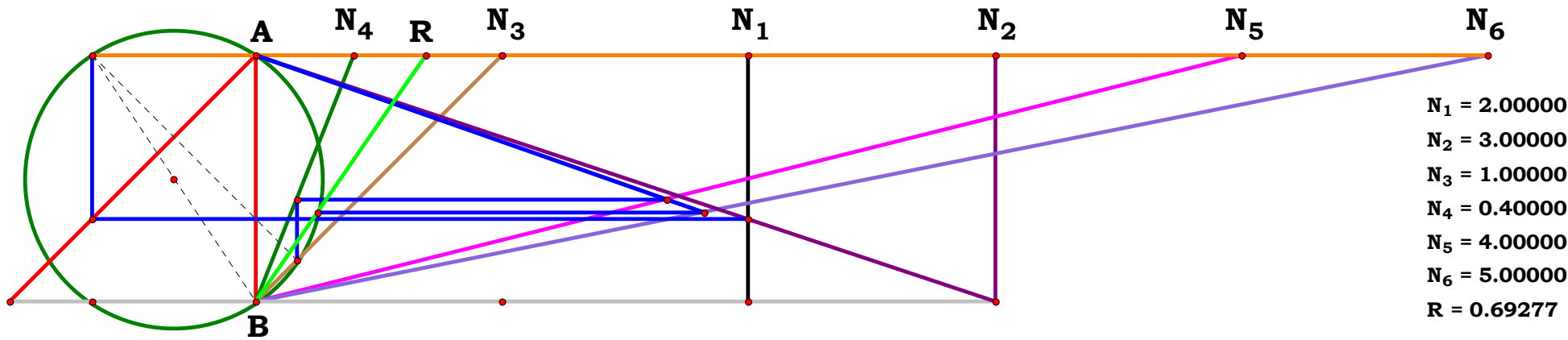
$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot [\mathbf{N}_3 \cdot (\mathbf{N}_5 - \mathbf{N}_6) \cdot (\mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3) + \mathbf{N}_2 \cdot \mathbf{N}_4 \cdot \mathbf{N}_6 \cdot (\mathbf{N}_3^2 + 1)] \dots + \sqrt{(\mathbf{N}_1^2 + \mathbf{N}_2^2) \cdot [\mathbf{N}_3 \cdot (\mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3) \cdot (\mathbf{N}_5 - \mathbf{N}_6) + \mathbf{N}_2 \cdot \mathbf{N}_4 \cdot \mathbf{N}_6 \cdot (\mathbf{N}_3^2 + 1)]^2 - \mathbf{N}_2^2 \cdot [\mathbf{N}_3 \cdot (\mathbf{N}_2 - \mathbf{N}_1 \cdot \mathbf{N}_3) \cdot (\mathbf{N}_5 + \mathbf{N}_6) - \mathbf{N}_2 \cdot \mathbf{N}_4 \cdot \mathbf{N}_6 \cdot (\mathbf{N}_3^2 + 1)]^2}}{2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3 \cdot \mathbf{N}_5 \cdot (\mathbf{N}_1 \cdot \mathbf{N}_3 - \mathbf{N}_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{D} \cdot \mathbf{F} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \cdot \left[2 \cdot \mathbf{E} \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B}^2) \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \right] + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{F} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right] + \mathbf{B}^2 \cdot \mathbf{E}^2 \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2 - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^2 \dots}{+ (\mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{F} - \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{E}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{D} \cdot \mathbf{E} + \mathbf{D} \cdot \mathbf{F})}}{\mathbf{2} \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{1} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot U \cdot V \cdot Z \cdot k \cdot 1 \cdot o \cdot (W^2 + m^2) - U \cdot W \cdot 1 \cdot n \cdot (Y \cdot p - Z \cdot o) \cdot (U \cdot W \cdot 1 - V \cdot k \cdot m) - \sqrt{X^2 \cdot U^2 \cdot V^2 \cdot Z^2 \cdot k^2 \cdot 1^2 \cdot o^2 \cdot (W^2 + m^2)^2 \dots + -2 \cdot X \cdot V \cdot W \cdot Z \cdot k \cdot n \cdot o \cdot (W^2 + m^2) \cdot (U \cdot W \cdot 1 - V \cdot k \cdot m) \cdot (U^2 \cdot Y \cdot 1^2 \cdot p - U^2 \cdot Z \cdot 1^2 \cdot o + 2 \cdot V^2 \cdot Y \cdot k^2 \cdot p) \dots + W^2 \cdot n^2 \cdot (U \cdot W \cdot 1 - V \cdot k \cdot m)^2 \cdot (U^2 \cdot Y^2 \cdot 1^2 \cdot p^2 - 2 \cdot U^2 \cdot Y \cdot Z \cdot 1^2 \cdot o \cdot p + U^2 \cdot Z^2 \cdot 1^2 \cdot o^2 - 4 \cdot V^2 \cdot Y \cdot Z \cdot k^2 \cdot o \cdot p)}}{2 \cdot V \cdot W \cdot Y \cdot k \cdot n \cdot p \cdot (U \cdot W \cdot 1 - V \cdot k \cdot m)} = 0$$



$$\frac{N_1 \cdot (N_3 \cdot (N_5 - N_6) \cdot (N_2 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1)) - \sqrt{(N_1^2 + N_2^2) \cdot (N_3 \cdot (N_5 - N_6) \cdot (N_2 - N_1 \cdot N_3) + N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1))^2 - N_2^2 \cdot (N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_5 + N_6) - N_2 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1))^2}}{2 \cdot N_2 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_2)} - R = 0.00000$$



4RST6AB5R10

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$FH := N_5 \cdot FG \quad BJ := \frac{FH}{(AB - FG)}$$

$$BO := \frac{N_6 \cdot BJ}{N_6 + BJ} \quad KO := \frac{N_7 - BO}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 1.590298$$

Definitions.

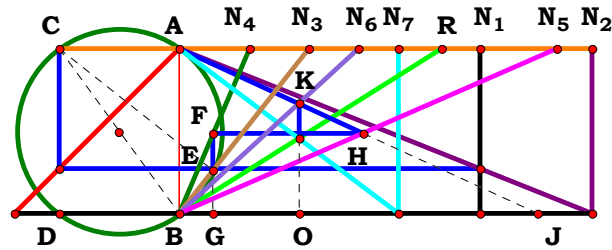
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_2 - N_1 \cdot N_3)}{N_2 \cdot N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) - N_3 \cdot (N_5 \cdot N_6 - N_5 \cdot N_7 + N_6 \cdot N_7) \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot N_u \cdot (A \cdot C - B \cdot N_u)}{F \cdot D \cdot (A \cdot C - B \cdot N_u) + \left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right]} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot m \cdot (U \cdot j \cdot l - T \cdot V \cdot k)}{W \cdot U \cdot Y \cdot Z \cdot j \cdot n \cdot (V^2 + l^2) + V \cdot m \cdot (X \cdot Y \cdot p - X \cdot Z \cdot o + Y \cdot Z \cdot n) \cdot (T \cdot V \cdot k - U \cdot j \cdot l)} = 0$$



$$\begin{aligned} N_1 &= 1.81833 & N_3 &= 0.78668 & N_5 &= 2.28585 & N_7 &= 1.32695 \\ N_2 &= 2.49634 & N_4 &= 0.42595 & N_6 &= 1.08481 & R &= 1.59029 \end{aligned}$$

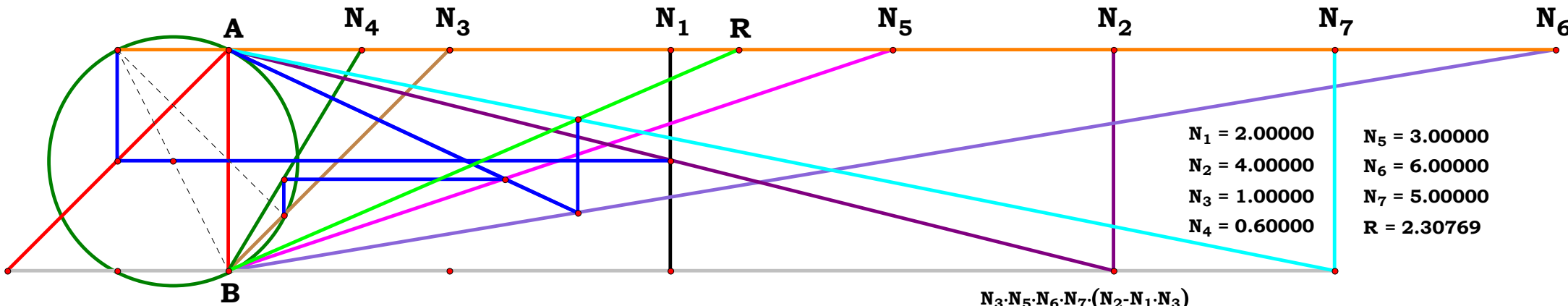
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.81833 \quad N_2 := 2.49634 \quad N_3 := .78668 \quad N_4 := .42595$$

$$N_5 := 2.28585 \quad N_6 := 1.08481 \quad N_7 := 1.32695$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

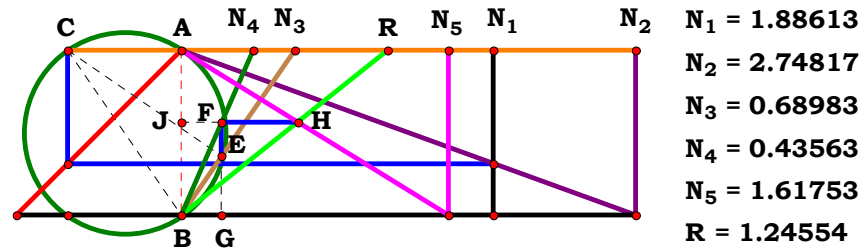
$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$



$$\begin{aligned} N_1 &= 2.00000 & N_5 &= 3.00000 \\ N_2 &= 4.00000 & N_6 &= 6.00000 \\ N_3 &= 1.00000 & N_7 &= 5.00000 \\ N_4 &= 0.60000 & R &= 2.30769 \end{aligned}$$

$$\frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_2 - N_1 \cdot N_3)}{N_2 \cdot N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) - N_3 \cdot ((N_5 \cdot N_6 - N_5 \cdot N_7) + N_6 \cdot N_7) \cdot (N_2 - N_1 \cdot N_3)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.88613$ $N_2 := 2.74817$ $N_3 := .68983$

$N_4 := .43563$ $N_5 := 1.61753$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$HJ := N_5 \cdot (AB - FG) \quad R := \frac{HJ}{FG}$$

$R = 1.245537$

Definitions.

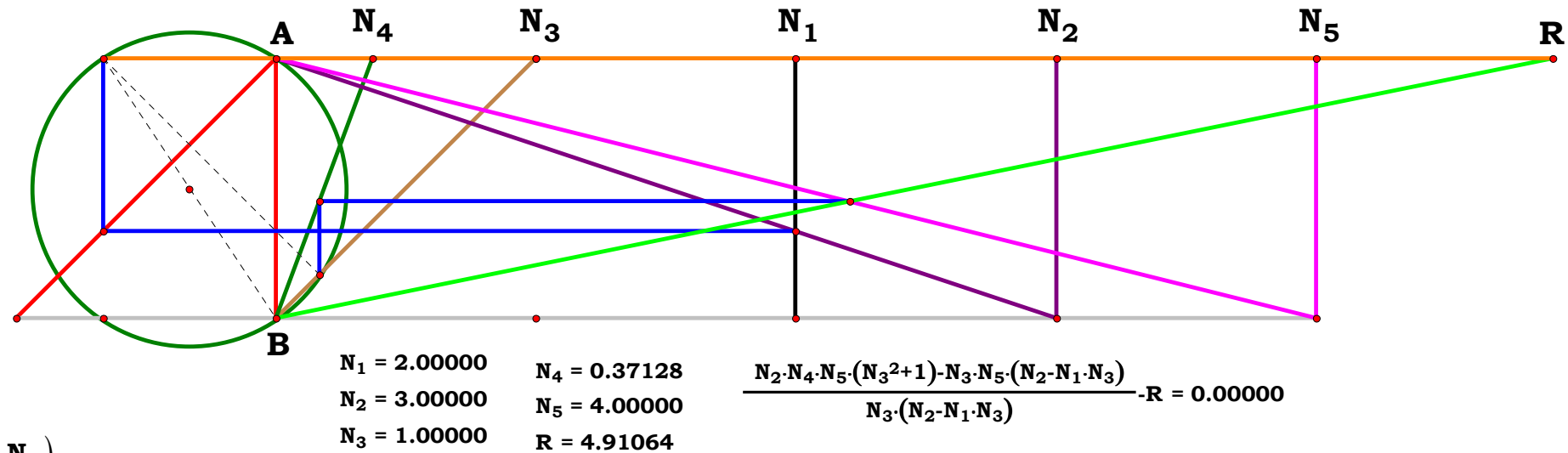
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3 \cdot N_5 \cdot (N_2 - N_1 \cdot N_3)}{N_3 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

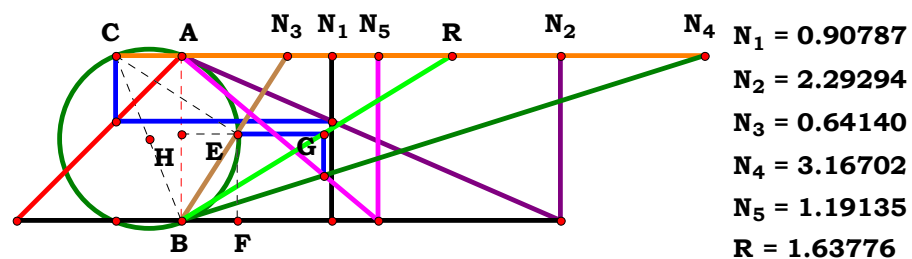
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u)]}{D \cdot E \cdot (A \cdot C - B \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [X^2 \cdot (W \cdot Y \cdot l + V \cdot m \cdot o) - W \cdot l \cdot n \cdot (X \cdot o - Y \cdot n)]}{X \cdot o \cdot p \cdot (W \cdot l \cdot n - V \cdot X \cdot m)} = 0$$



Unit. AB := 1 Given. $N_1 := .90787$ $N_2 := 2.29294$ $N_3 := .64140$
$$\mathbf{N}_4 := 3.16702 \quad \mathbf{N}_5 := 1.19135$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

V := 17 W := 20 X := 19 Y := 18 Z := 17

$$\mathbf{l} := \frac{\mathbf{V}}{N_1} \quad \mathbf{m} := \frac{\mathbf{W}}{N_2} \quad \mathbf{n} := \frac{\mathbf{X}}{N_3} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_4} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_5}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{N}_3^2 + \mathbf{AB}^2}$$

$$\mathbf{CN}_3 := \mathbf{N}_3 + \mathbf{AC} \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{EF} := \frac{(\mathbf{BN}_3 - \mathbf{EN}_3)}{\mathbf{BN}_3} \quad \mathbf{HG} := \frac{\mathbf{N}_5 \cdot \mathbf{N}_4}{\mathbf{N}_5 + \mathbf{N}_4}$$

$$R := \frac{HG}{EF} \quad R = 1.63776$$

Definitions.

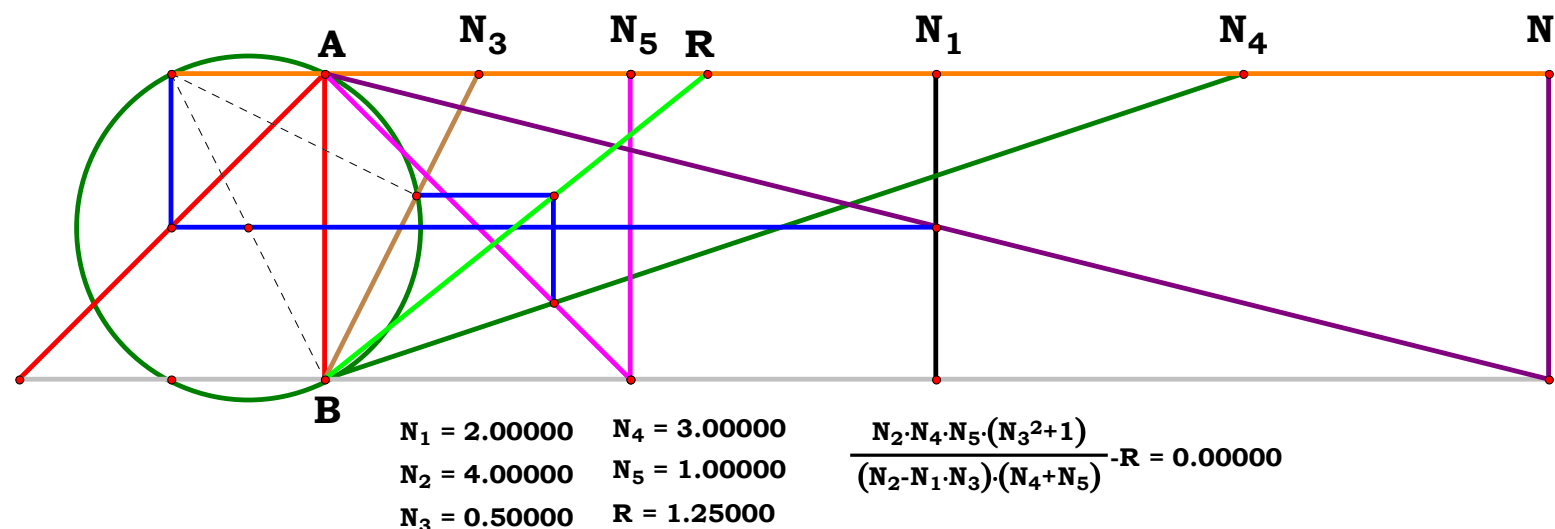
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_2 - N_1 \cdot N_3) \cdot (N_4 + N_5)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})} = 0$$

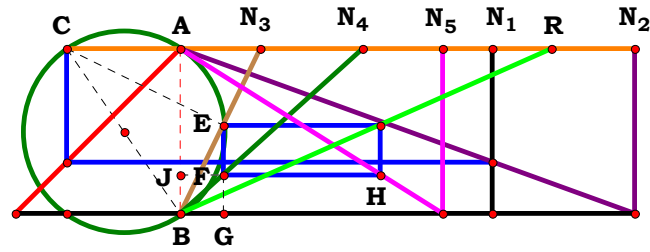
$$\mathbf{N}_1 - \frac{\mathbf{V}}{1} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_5 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{l} \cdot (\mathbf{X}^2 + \mathbf{n}^2)}{\mathbf{n} \cdot (\mathbf{W} \cdot \mathbf{l} \cdot \mathbf{n} - \mathbf{V} \cdot \mathbf{X} \cdot \mathbf{m}) \cdot (\mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{o})} = 0$$



N₁ = 2.00000 N₄ = 3.00000
N₂ = 4.00000 N₅ = 1.00000
N₃ = 0.50000 R = 1.25000

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_2 - N_1 \cdot N_3) \cdot (N_4 + N_5)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 1.88613 \\ N_2 &= 2.74817 \\ N_3 &= 0.48642 \\ N_4 &= 1.10395 \\ N_5 &= 1.58847 \\ R &= 2.24882 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.88613 \quad N_2 := 2.74817 \quad N_3 := .48642$$

$$N_4 := 1.10395 \quad N_5 := 1.58847$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG) \quad EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 2.2488$$

Definitions.

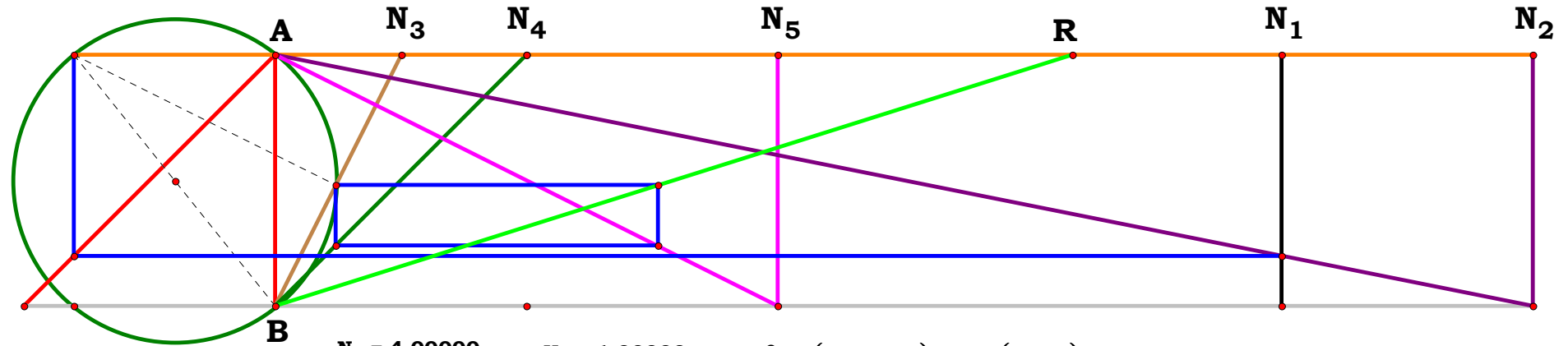
$$R - \frac{N_3^2 \cdot N_5 \cdot (N_1 + N_2 \cdot N_4) - N_2 \cdot N_5 \cdot (N_3 - N_4)}{N_4 \cdot (N_2 - N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)]}{C \cdot E \cdot (A \cdot C - B \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

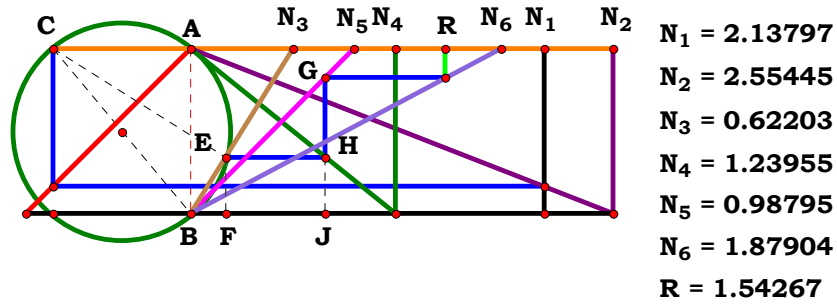
$$R - \frac{Y \cdot W \cdot Z \cdot l \cdot (X^2 + n^2) + X \cdot Z \cdot o \cdot (V \cdot X \cdot m - W \cdot l \cdot n)}{Y \cdot n \cdot p \cdot (W \cdot l \cdot n - V \cdot X \cdot m)} = 0$$



$$\begin{aligned} N_1 &= 4.00000 \\ N_2 &= 5.00000 \\ N_3 &= 0.50000 \end{aligned}$$

$$\begin{aligned} N_4 &= 1.00000 \\ N_5 &= 2.00000 \\ R &= 3.16667 \end{aligned}$$

$$\frac{N_3^2 \cdot N_5 \cdot (N_1 + N_2 \cdot N_4) - N_2 \cdot N_5 \cdot (N_3 - N_4)}{N_4 \cdot (N_2 - N_1 \cdot N_3)} - R = 0.00000$$



Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - EF)$$

$$GH := \frac{BH}{N_5} \quad R := N_6 \cdot GH$$

$$R = 1.542679$$

Definitions.

$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_1 + N_2 \cdot N_3)}{N_2 \cdot N_5 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{E \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u)}{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

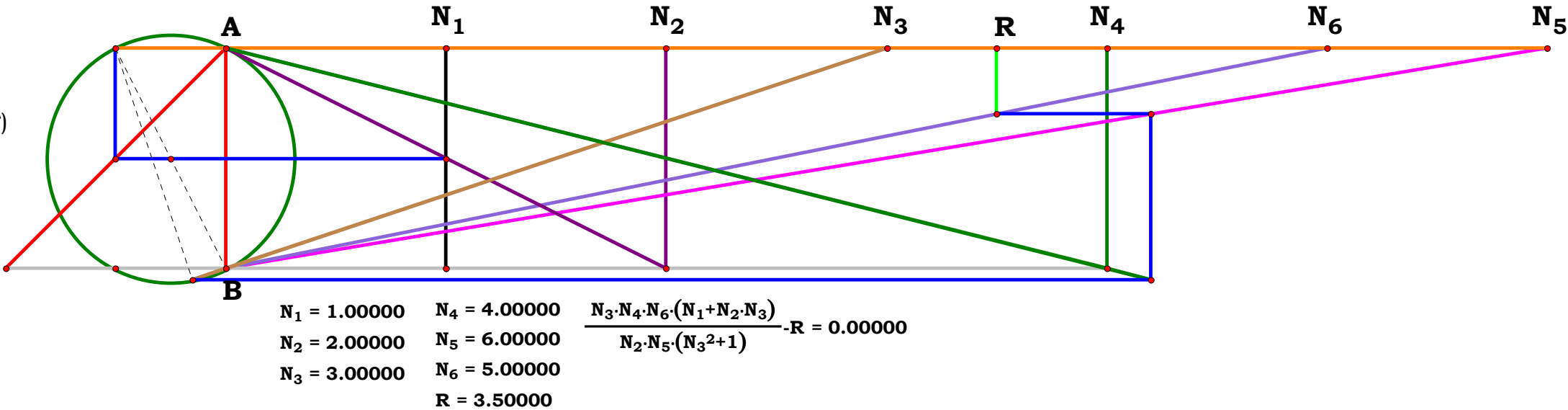
$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (V \cdot W \cdot k + U \cdot l \cdot m)}{p \cdot V \cdot Y \cdot k \cdot n \cdot (W^2 + m^2)} = 0$$

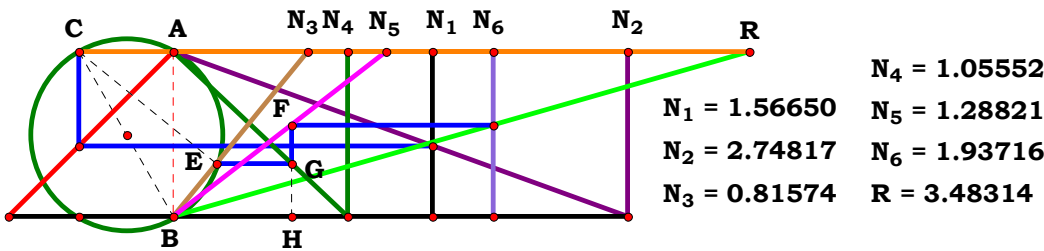
Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 2.55446$ $N_3 := .62203$
 $N_4 := 1.23955$ $N_5 := .98795$ $N_6 := 1.87904$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$





Unit. $AB := 1$ Given. $N_1 := 1.56650$ $N_2 := 2.74817$ $N_3 := .81574$
 $N_4 := 1.05552$ $N_5 := 1.28821$ $N_6 := 1.93716$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \qquad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$GH := \frac{BN_3 - EN_3}{BN_3} \qquad BH := N_4 \cdot (AB - GH)$$

$$FH := \frac{BH}{N_5} \qquad R := \frac{N_6}{FH} \qquad R = 3.483165$$

Definitions.

$$R - \frac{N_2 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_1 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0$$

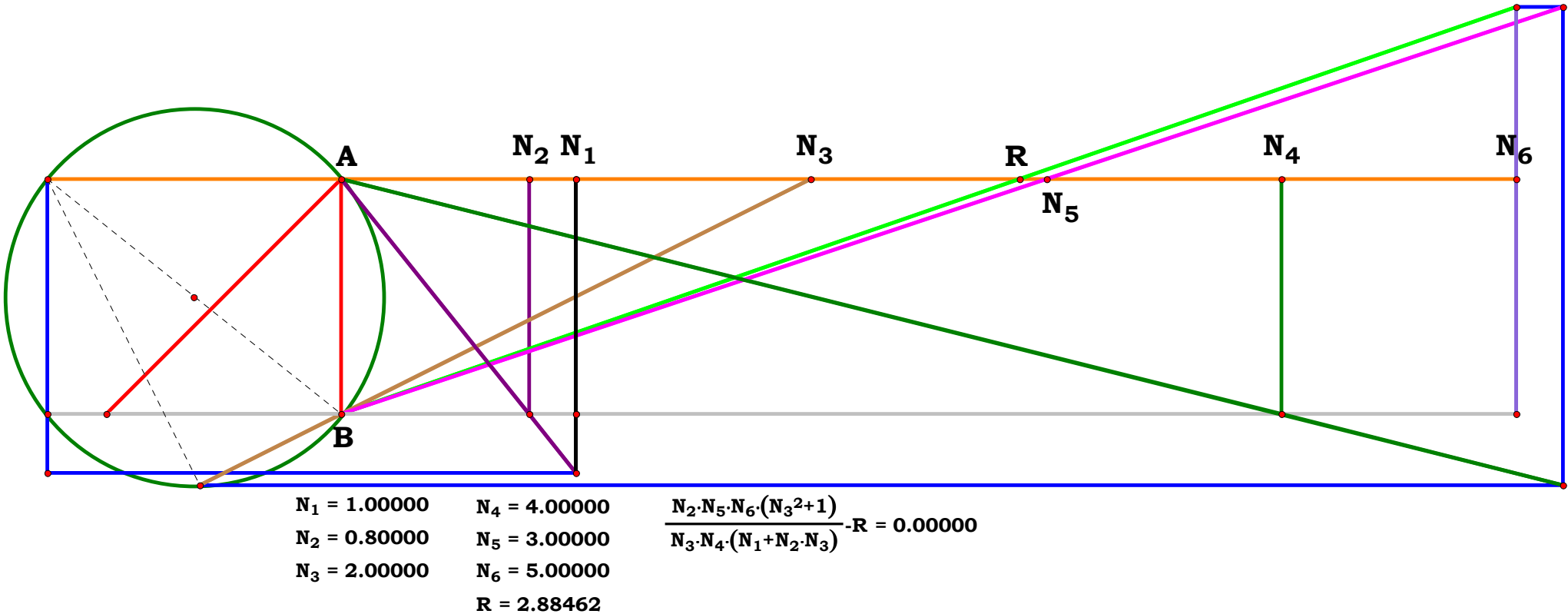
$$N_4 - \frac{N_u}{D} = 0 \qquad N_5 - \frac{N_u}{E} = 0 \qquad N_6 - \frac{N_u}{F} = 0$$

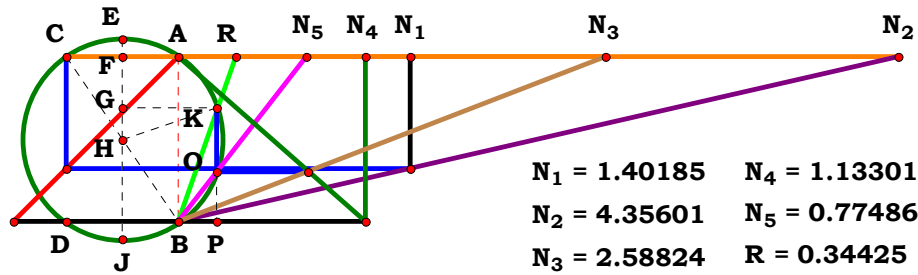
$$R - \frac{A \cdot D \cdot (C^2 + N_u^2)}{E \cdot F \cdot (B \cdot C + A \cdot N_u)} = 0$$

$$N_1 - \frac{U}{k} = 0 \qquad N_2 - \frac{V}{l} = 0 \qquad N_3 - \frac{W}{m} = 0$$

$$N_4 - \frac{X}{n} = 0 \qquad N_5 - \frac{Y}{o} = 0 \qquad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot Y \cdot Z \cdot k \cdot n \cdot (W^2 + m^2)}{o \cdot p \cdot [W \cdot X \cdot (V \cdot W \cdot k + U \cdot l \cdot m)]} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.40185$ $N_2 := 4.35601$ $N_3 := 2.58824$
 $N_4 := 1.13301$ $N_5 := .77486$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

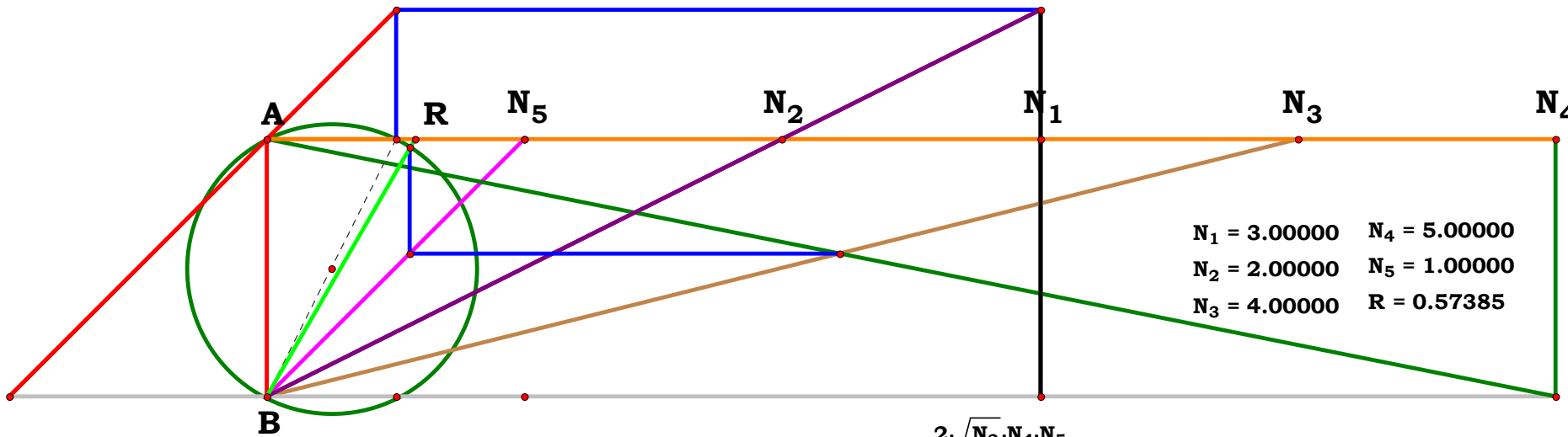
Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$GK := BP + AF \quad HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$KO := \frac{AB}{2} + GH \quad R := \frac{BP}{KO} \quad R = 0.344251$$



Definitions.

$$R - \frac{2 \cdot \sqrt{N_2 \cdot N_4 \cdot N_5}}{\sqrt{N_2 \cdot (N_3 + N_4)} + \sqrt{N_2 \cdot (N_3 + N_4)^2 - 4 \cdot N_2 \cdot N_4^2 \cdot N_5^2} + 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} = 0$$

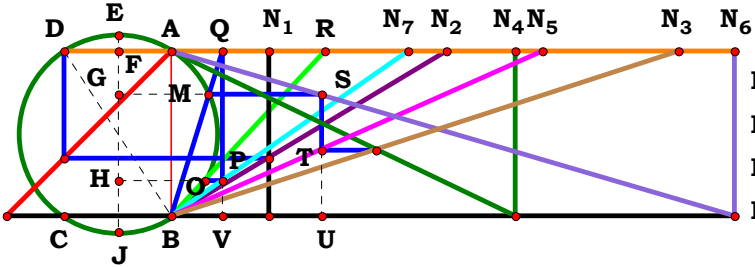
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{2 \cdot C \cdot (\sqrt{N_u})^3 \cdot \sqrt{A \cdot B}}{\sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot E^2 \cdot (C + D)^2 - 4 \cdot A \cdot C^2 \cdot N_u^2 - 4 \cdot N_u \cdot C \cdot E \cdot (C + D) \cdot (A - B)] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{W \cdot Y \cdot Z \cdot n} \cdot \sqrt{l \cdot m}}{\sqrt{4 \cdot Z \cdot Y \cdot n \cdot p \cdot (X \cdot o + Y \cdot n) \cdot (V \cdot m - W \cdot l)} - 4 \cdot W \cdot Y^2 \cdot l \cdot n^2 \cdot Z^2 + W \cdot l \cdot p^2 \cdot (X \cdot o + Y \cdot n)^2 \cdot \sqrt{m} + \sqrt{l \cdot m} \cdot \sqrt{W} \cdot p \cdot (X \cdot o + Y \cdot n)}} = 0$$

$$\frac{2 \cdot \sqrt{N_2 \cdot N_4 \cdot N_5}}{\sqrt{N_2 \cdot (N_3 + N_4)} + \sqrt{(N_2 \cdot (N_3 + N_4)^2 - 4 \cdot N_2 \cdot N_4^2 \cdot N_5^2) + 4 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2) \cdot (N_3 + N_4)}} - R = 0.00000$$



N₁ = 0.58824 N₅ = 2.24710
 N₂ = 1.66336 N₆ = 3.40940
 N₃ = 3.07253 N₇ = 1.43350
 N₄ = 2.08221 R = 0.93106

Unit. AB := 1 Given. N₁ := .58824 N₂ := 1.66336 N₃ := 3.07253
 N₄ := 2.08221 N₅ := 2.24710 N₆ := 3.40940 N₇ := 1.43350

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

$$TU := \frac{N_4}{N_3 + N_4}$$

$$BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6}$$

$$GJ := SU + EF$$

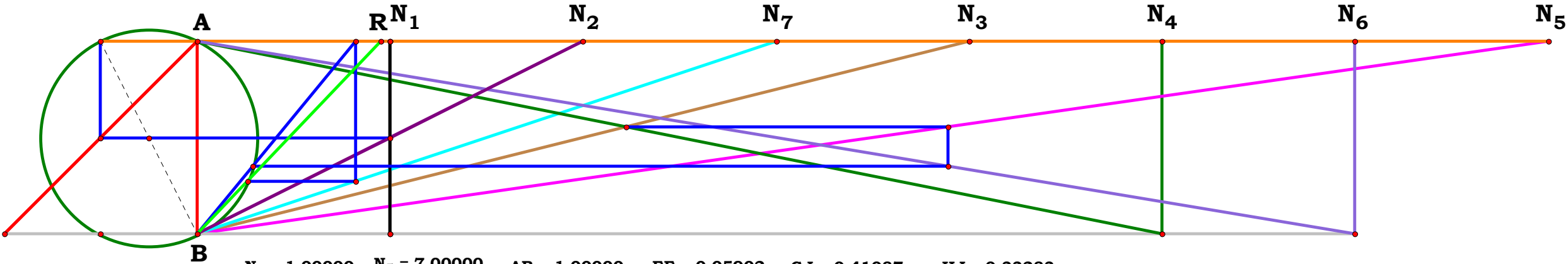
$$GK := \sqrt{GJ \cdot (EJ - GJ)}$$

$$AQ := \frac{GK - AF}{SU}$$

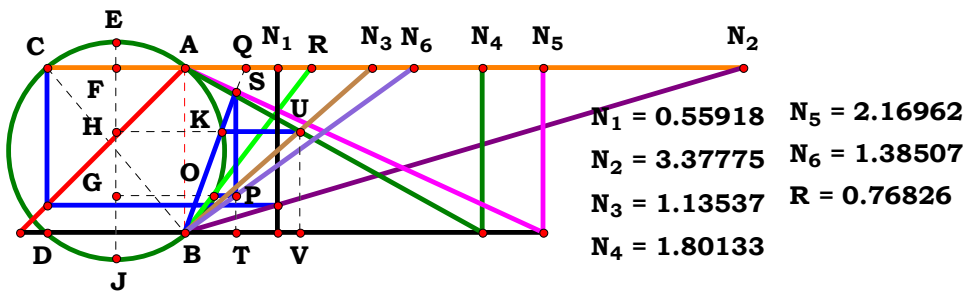
$$PV := \frac{AQ}{N_7} \qquad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \qquad R := \frac{HO - AF}{PV}$$

$$R = 0.931063$$



N ₁ = 1.00000	N ₅ = 7.00000	AB = 1.00000	EF = 0.05902	GJ = 0.41087	HJ = 0.33283
N ₂ = 2.00000	N ₆ = 6.00000	AC = 0.50000	TU = 0.55556	GK = 0.53903	HO = 0.51122
N ₃ = 4.00000	N ₇ = 3.00000	EJ = 1.11803	BU = 3.88889	AQ = 0.82145	R- $\frac{HO-AF}{PV}$ = 0.00000
N ₄ = 5.00000	R = 0.95398	AF = 0.25000	SU = 0.35185	PV = 0.27382	



Unit. $AB := 1$ Given. $N_1 := .55918$ $N_2 := 3.37775$ $N_3 := 1.13537$
 $N_4 := 1.80133$ $N_5 := 2.16962$ $N_6 := 1.38507$

Descriptions.

$AC := \frac{N_2 - N_1}{N_2}$ $EJ := \sqrt{AB^2 + AC^2}$

$AF := \frac{AC}{2}$ $EF := \frac{EJ - AB}{2}$

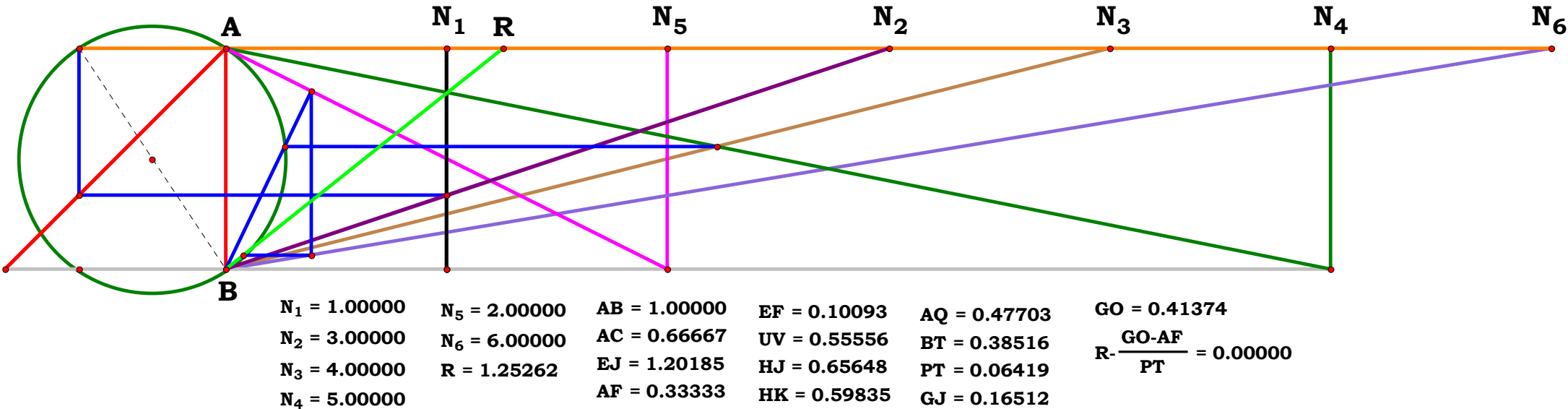
$UV := \frac{N_4}{N_3 + N_4}$ $HJ := UV + EF$

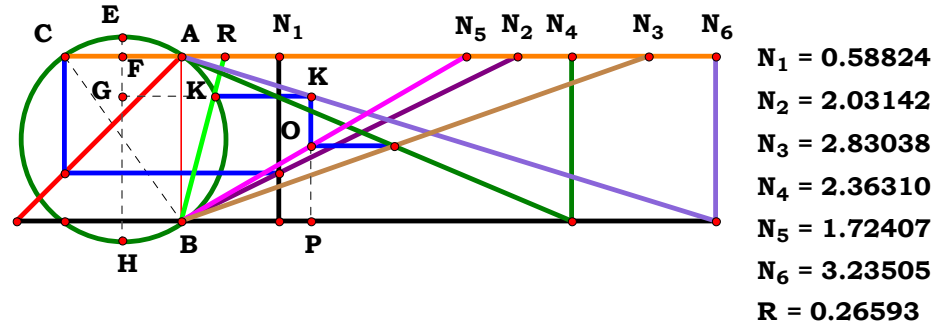
$HK := \sqrt{HJ \cdot (EJ - HJ)}$ $AQ := \frac{HK - AF}{UV}$

$BT := \frac{AQ \cdot N_5}{AQ + N_5}$ $PT := \frac{BT}{N_6}$

$GJ := PT + EF$ $GO := \sqrt{GJ \cdot (EJ - GJ)}$

$R := \frac{GO - AF}{PT}$ $R = 0.768258$





Unit. $AB := 1$ Given. $N_1 := .58824$ $N_2 := 2.03142$ $N_3 := 2.83038$
 $N_4 := 2.36310$ $N_5 := 1.72407$ $N_6 := 3.23505$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

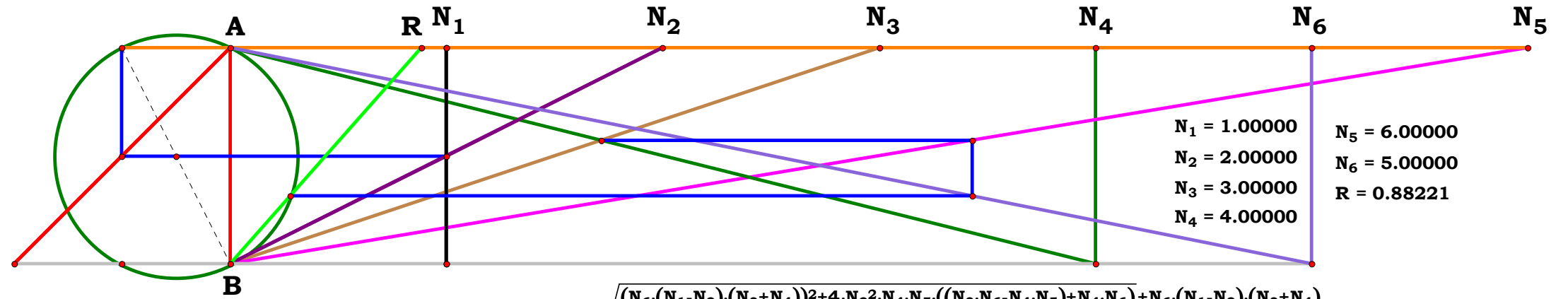
$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad EF := \frac{EH - AB}{2}$$

$$AF := \frac{AC}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_5 \cdot OP$$

$$KP := AB - \frac{BP}{N_6} \quad GH := KP + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GJ - AF}{KP}$$

$R = 0.265928$



Definitions.

$$R - \frac{\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6) + N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}}{2 \cdot N_2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + E^2 \cdot (C + D)^2 \cdot (A - B)^2 - E \cdot (C + D) \cdot (A - B)}}{2 \cdot A \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Z^2 \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot (U \cdot l - V \cdot k)^2 + 4 \cdot Z \cdot V^2 \cdot X \cdot Y \cdot k^2 \cdot m \cdot o \cdot p \cdot (W \cdot n + X \cdot m) - 4 \cdot V^2 \cdot X^2 \cdot Y^2 \cdot k^2 \cdot m^2 \cdot p^2 + Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l - V \cdot k)}}{2 \cdot V \cdot k \cdot (W \cdot Z \cdot n \cdot o - X \cdot Y \cdot m \cdot p + X \cdot Z \cdot m \cdot o)} = 0$$

$$\frac{\sqrt{(N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4))^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6) + N_6 \cdot (N_1 - N_2) \cdot (N_3 + N_4)}}{2 \cdot N_2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)} - R = 0.00000$$



4RST6AB6R4

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad GH := \frac{N_4}{N_3 + N_4}$$

$$BH := N_5 \cdot GH \quad FH := \frac{N_6 - BH}{N_6}$$

$$AK := N_7 \cdot FH \quad BK := \sqrt{AK^2 + AB^2}$$

$$CK := AK + AC \quad EK := \frac{AK \cdot CK}{BK}$$

$$R := AK \cdot \frac{(BK - EK)}{BK} \quad R = 0.317619$$

Definitions.

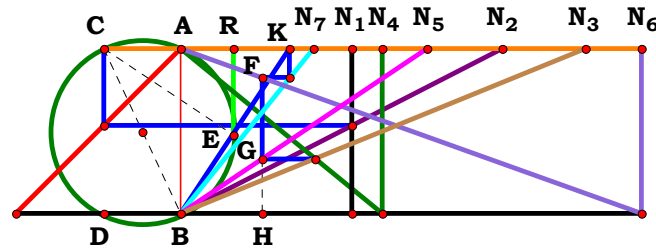
$$R - \frac{N_7^2 \cdot (N_1 - N_2) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2 + N_2 \cdot N_6 \cdot N_7 \cdot (N_3 + N_4) \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{N_2 \cdot [N_7^2 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)^2 + N_6^2 \cdot (N_3 + N_4)^2]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)]}{A \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2]} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot [Z \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n) \cdot (T \cdot k - U \cdot j) + U \cdot Y \cdot j \cdot n \cdot p \cdot (V \cdot m + W \cdot l)]}{U \cdot j \cdot [Z^2 \cdot (V \cdot Y \cdot m \cdot n - W \cdot X \cdot l \cdot o + W \cdot Y \cdot l \cdot n)^2 + Y^2 \cdot n^2 \cdot p^2 \cdot (V \cdot m + W \cdot l)^2]} = 0$$



$$\begin{array}{llll} N_1 = 1.03379 & N_3 = 2.45264 & N_5 = 1.49161 & N_7 = 0.80392 \\ N_2 = 1.94425 & N_4 = 1.22018 & N_6 = 2.78951 & R = 0.31762 \end{array}$$

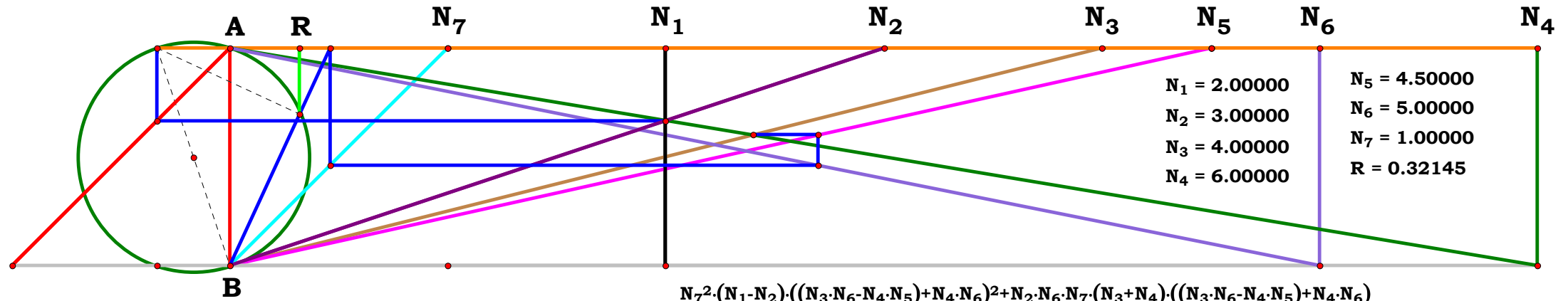
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.03379 \quad N_2 := 1.94425 \quad N_3 := 2.45264 \quad N_4 := 1.22018$$

$$N_5 := 1.49161 \quad N_6 := 2.78951 \quad N_7 := .80392$$

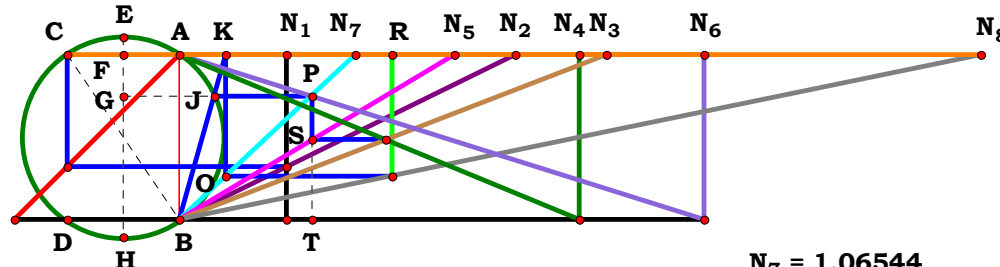
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$$T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$



$$\frac{N_7^2 \cdot (N_1 - N_2) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)^2 + N_2 \cdot N_6 \cdot N_7 \cdot (N_3 + N_4) \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)}{N_2 \cdot (N_7^2 \cdot ((N_3 \cdot N_6 - N_4 \cdot N_5) + N_4 \cdot N_6)^2 + N_6^2 \cdot (N_3 + N_4)^2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .64635$ $N_2 := 2.03142$ $N_3 := 2.58824$ $N_4 := 2.42122$
 $N_5 := 1.66595$ $N_6 := 3.17694$ $N_7 := 1.06544$ $N_8 := 4.84868$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

$S := 20$ $T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$h := \frac{S}{N_1}$ $j := \frac{T}{N_2}$ $k := \frac{Y}{N_3}$ $l := \frac{V}{N_4}$ $m := \frac{W}{N_5}$ $n := \frac{X}{N_6}$ $o := \frac{Y}{N_7}$ $p := \frac{Z}{N_8}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

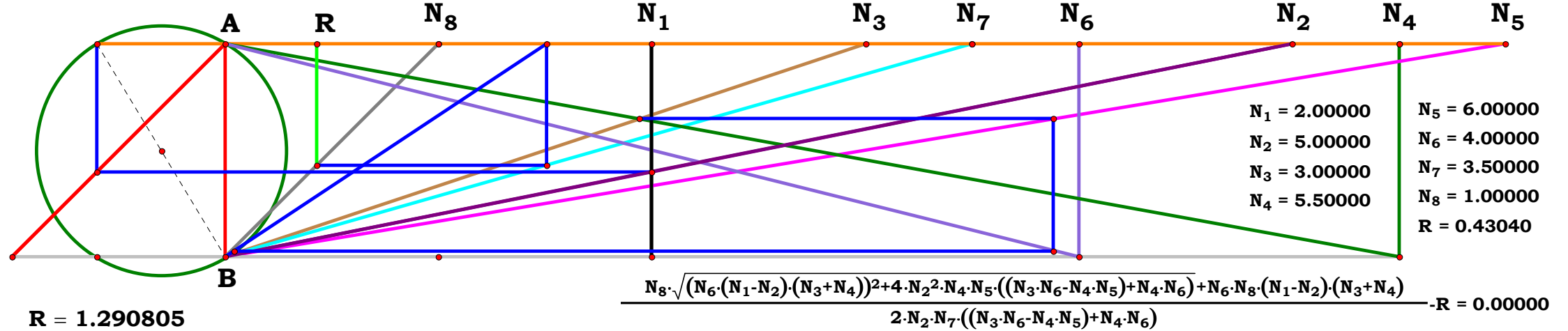
$$ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6} \quad GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{(GJ - AF)}{PT}$$

$$KO := \frac{N_7 - AK}{N_7} \quad R := N_8 \cdot (AB - KO) \quad R = 1.290805$$



Definitions.

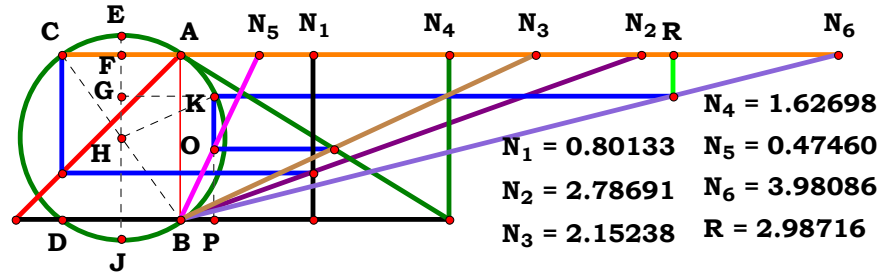
$$R - \frac{N_8 \cdot \left[\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} + N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2) \right]}{2 \cdot N_2 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$R - \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 + 4 \cdot E \cdot A^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot A^2 \cdot C^2 \cdot F^2} - E \cdot (C + D) \cdot (A - B) \right]}{2 \cdot A \cdot H \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{N_8 \cdot \left[\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} + N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2) \right]}{2 \cdot N_2 \cdot N_7 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .80133$ $N_2 := 2.78691$ $N_3 := 2.15238$
 $N_4 := 1.62698$ $N_5 := .47460$ $N_6 := 3.98086$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

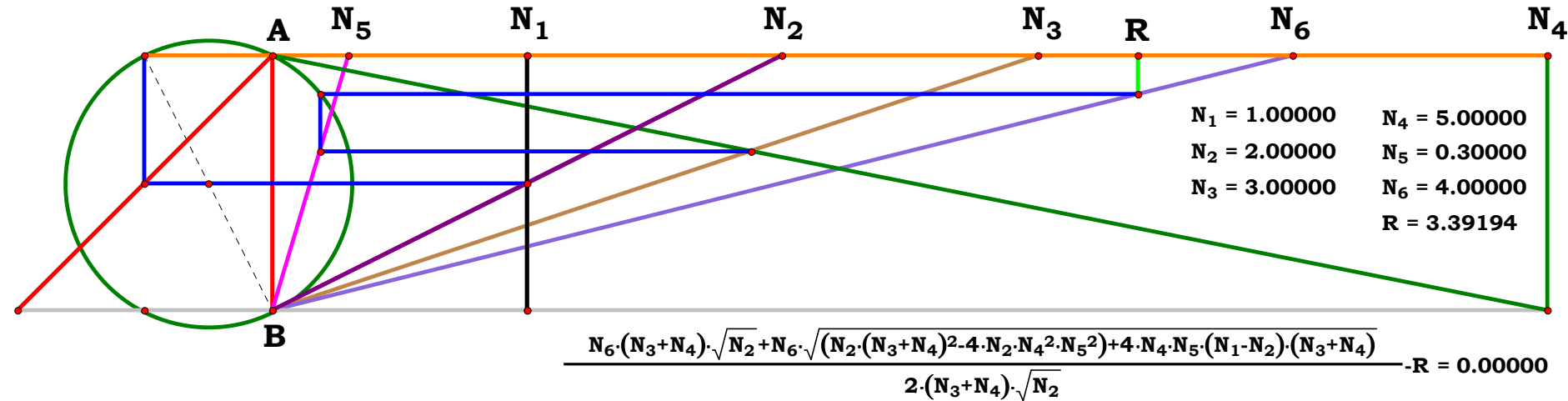
$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP$$

$$GH := \sqrt{HK^2 - GK^2} \quad KP := GH + HK - EF$$

$$R := N_6 \cdot KP \quad R = 2.987175$$

Definitions.



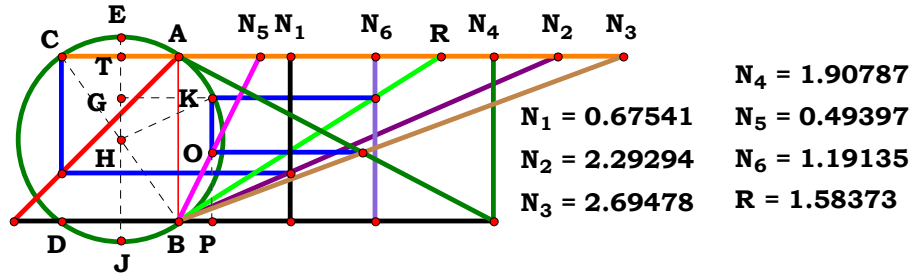
$$R - \frac{N_6 \cdot \left[\sqrt{N_2} \cdot (N_3 + N_4) + \sqrt{N_2 \cdot (N_3 + N_4)^2 - 4 \cdot N_2 \cdot N_4^2 \cdot N_5^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)} \right]}{2 \cdot \sqrt{N_2} \cdot (N_3 + N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{\sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{A \cdot B} \cdot E} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot \left[\sqrt{4 \cdot Y \cdot X \cdot m \cdot o \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l - V \cdot k) - 4 \cdot V \cdot X^2 \cdot k \cdot m^2 \cdot Y^2 + V \cdot k \cdot o^2 \cdot (W \cdot n + X \cdot m)^2} \cdot \sqrt{1} + \sqrt{k \cdot l} \cdot \sqrt{V \cdot o} \cdot (W \cdot n + X \cdot m) \right]}{2 \cdot \sqrt{V \cdot o} \cdot p \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k \cdot l}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .67541$ $N_2 := 2.29294$ $N_3 := 2.69478$

$N_4 := 1.90787$ $N_5 := .49397$ $N_6 := 1.19135$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

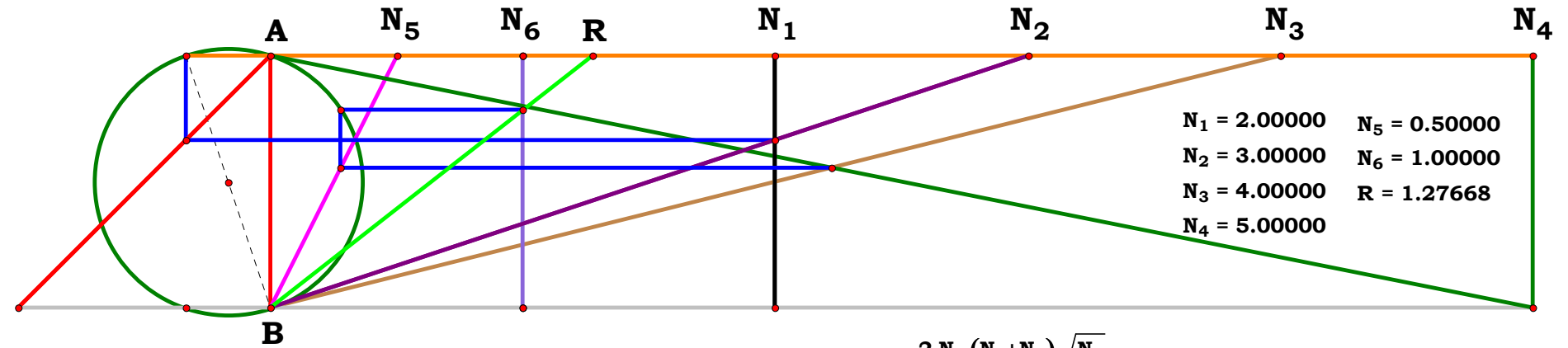
Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad HK := \frac{EJ}{2} \quad OP := \frac{N_4}{N_3 + N_4}$$

$$BP := N_5 \cdot OP \quad GK := AF + BP \quad GH := \sqrt{HK^2 - GK^2}$$

$$KP := GH + HK - EF \quad R := \frac{N_6}{KP} \quad R = 1.583718$$



Definitions.

$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_6 \cdot (N_3 + N_4)}{\sqrt{N_2} \cdot (N_3 + N_4) + \sqrt{N_2 \cdot (N_3 + N_4)^2 - 4 \cdot N_2 \cdot N_4^2 \cdot N_5^2 + 4 \cdot N_4 \cdot N_5 \cdot (N_3 + N_4) \cdot (N_1 - N_2)}} = 0$$

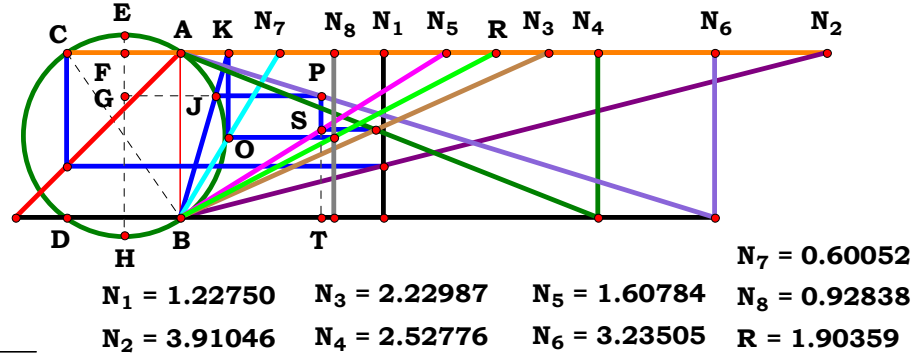
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (C + D) \cdot \sqrt{A \cdot B \cdot E}}{F \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{V} \cdot Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot \sqrt{k \cdot l}}{p \cdot \left[\sqrt{4 \cdot Y \cdot X \cdot m \cdot o \cdot (W \cdot n + X \cdot m) \cdot (U \cdot l - V \cdot k)} - 4 \cdot V \cdot X^2 \cdot k \cdot m^2 \cdot Y^2 + V \cdot k \cdot o^2 \cdot (W \cdot n + X \cdot m)^2 \cdot \sqrt{1} + \sqrt{k \cdot l} \cdot \sqrt{V} \cdot o \cdot (W \cdot n + X \cdot m) \right]} = 0$$

$$\frac{2 \cdot N_6 \cdot (N_3 + N_4) \cdot \sqrt{N_2}}{(N_3 + N_4) \cdot \sqrt{N_2} + \sqrt{(N_2 \cdot (N_3 + N_4)^2 - 4 \cdot N_2 \cdot N_4^2 \cdot N_5^2) + 4 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2) \cdot (N_3 + N_4)}} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.22750$ $N_2 := 3.91046$ $N_3 := 2.22987$ $N_4 := 2.52776$
 $N_5 := 1.60784$ $N_6 := 3.23505$ $N_7 := .60052$ $N_8 := .92838$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8}$$

$$S := 20 \quad T := 19 \quad U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$h := \frac{S}{N_1} \quad j := \frac{T}{N_2} \quad k := \frac{Y}{N_3} \quad l := \frac{V}{N_4} \quad m := \frac{W}{N_5} \quad n := \frac{X}{N_6} \quad o := \frac{Y}{N_7} \quad p := \frac{Z}{N_8}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$ST := \frac{N_4}{N_3 + N_4} \quad BT := N_5 \cdot ST$$

$$PT := \frac{N_6 - BT}{N_6}$$

$$GH := PT + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$AK := \frac{GJ - AF}{PT} \quad KO := \frac{N_7 - AK}{N_7} \quad R := \frac{N_8}{AB - KO} \quad R = 1.903602$$

Definitions.

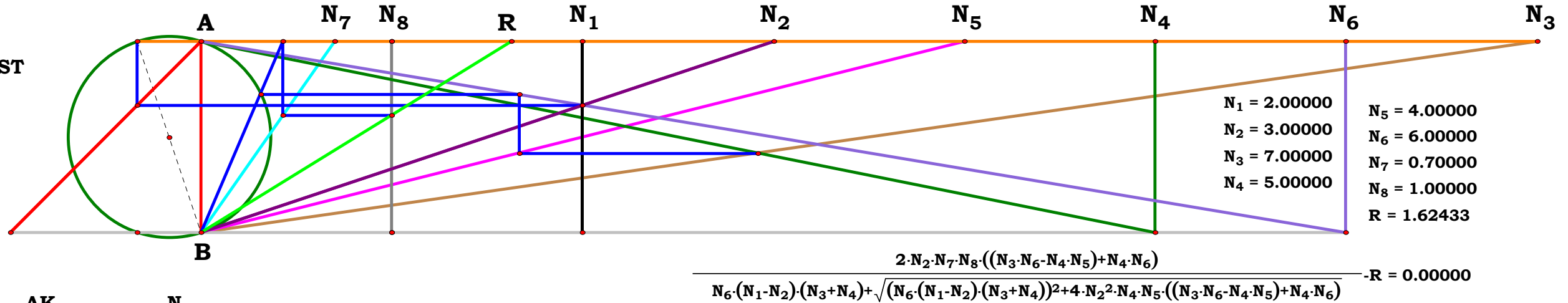
$$R - \frac{2 \cdot N_2 \cdot N_7 \cdot N_8 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)}{\sqrt{N_6^2 \cdot (N_3 + N_4)^2 \cdot (N_1 - N_2)^2 + 4 \cdot N_2^2 \cdot N_4 \cdot N_5 \cdot (N_3 \cdot N_6 - N_4 \cdot N_5 + N_4 \cdot N_6)} + N_6 \cdot (N_3 + N_4) \cdot (N_1 - N_2)} = 0$$

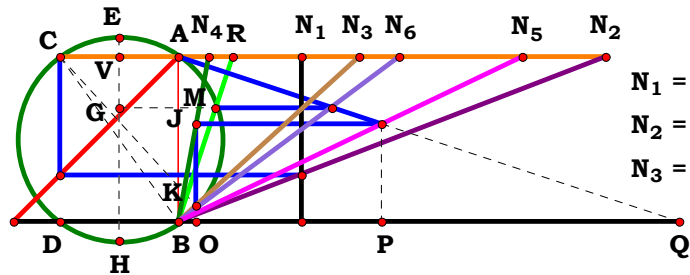
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0 \quad N_8 - \frac{N_u}{H} = 0$$

$$N_1 - \frac{S}{h} = 0 \quad N_2 - \frac{T}{j} = 0 \quad N_3 - \frac{U}{k} = 0 \quad N_4 - \frac{V}{l} = 0 \quad N_5 - \frac{W}{m} = 0 \quad N_6 - \frac{X}{n} = 0 \quad N_7 - \frac{Y}{o} = 0 \quad N_8 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{\left[G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot [C \cdot (E - F) + D \cdot E]} - E \cdot (C + D) \cdot (A - B) \right] \right]} = 0$$

$$R - \frac{2 \cdot T \cdot Y \cdot Z \cdot h \cdot (U \cdot X \cdot l \cdot m - V \cdot W \cdot k \cdot n + V \cdot X \cdot k \cdot m)}{o \cdot p \cdot \left[\sqrt{X^2 \cdot m^2 \cdot (U \cdot l + V \cdot k)^2 \cdot (S \cdot j - T \cdot h)^2 + 4 \cdot X \cdot T^2 \cdot V \cdot W \cdot h^2 \cdot k \cdot m \cdot n \cdot (U \cdot l + V \cdot k)} - 4 \cdot T^2 \cdot V^2 \cdot W^2 \cdot h^2 \cdot k^2 \cdot n^2 - X \cdot m \cdot (U \cdot l + V \cdot k) \cdot (T \cdot h - S \cdot j) \right]} = 0$$





$N_1 = 0.74321$ $N_4 = 0.18380$
 $N_2 = 2.58351$ $N_5 = 2.08244$
 $N_3 = 1.09663$ $N_6 = 1.33664$
 $R = 0.32601$

Unit. $AB := 1$ Given. $N_1 := .74321$ $N_2 := 2.58351$ $N_3 := 1.09663$
 $N_4 := .18380$ $N_5 := 2.08244$ $N_6 := 1.33664$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

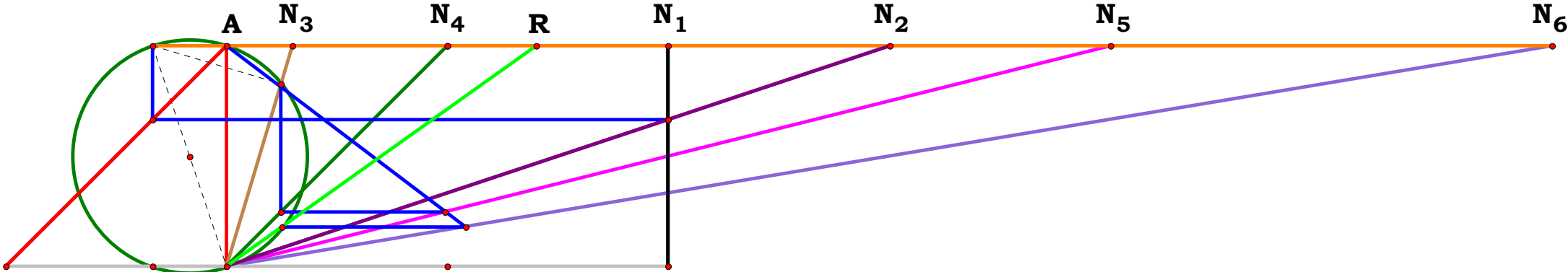
$$BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

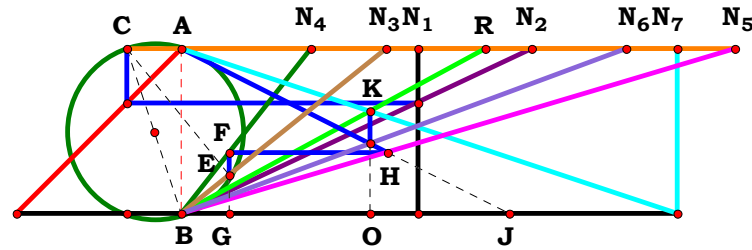
$$R := \frac{GM - AF}{AB - FG} \quad R = 0.32601$$



$N_1 = 2.00000$	$N_4 = 1.00000$	$AB = 1.00000$	$EF = 0.02705$	$BO = 0.24771$	$FG = 0.82000$
$N_2 = 3.00000$	$N_5 = 4.00000$	$AC = 0.33333$	$BN_3 = 1.04403$	$JO = 0.24771$	$EG = 0.84705$
$N_3 = 0.30000$	$N_6 = 6.00000$	$EH = 1.05409$	$CN_3 = 0.63333$	$BP = 0.99083$	$GM = 0.41878$
	$R = 1.40064$	$AF = 0.16667$	$KN_3 = 0.18199$	$BQ = 1.31707$	$R - \frac{GM - AF}{AB - FG} = 0.00000$

Definitions.

$$\begin{aligned}
 R - \frac{ & \sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot \left[N_3^2 \cdot (N_1 - N_2 - N_2 \cdot N_4) + N_2 \cdot (N_3 - N_4) \right]^2 + N_3^2 \cdot N_5^2 \cdot (N_1 - N_2)^2 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2 \dots \dots } \\
 & + -2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot \left(N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2 \right) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) \cdot \left[N_3^2 \cdot (N_1 - N_2 - N_2 \cdot N_4) + N_2 \cdot (N_3 - N_4) \right] \\
 & + (N_1 - N_2) \cdot \left[(N_1 - N_2) \cdot (N_5 - N_6) \cdot N_3^2 + N_2 \cdot \left[N_6 \cdot (N_3^2 \cdot N_4 - N_3 + N_4) + N_3 \cdot N_5 \right] \right] }{2 \cdot N_2 \cdot N_3 \cdot N_5 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0
 \end{aligned}$$



Unit. $AB := 1$ Given. $N_1 := 1.43090$ $N_2 := 2.11859$ $N_3 := 1.24192$ $N_4 := .78432$

$N_5 := 3.35128$ $N_6 := 2.69265$ $N_7 := 3.00259$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

$T := 19$ $U := 18$ $V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$$j := \frac{T}{N_1} \quad k := \frac{U}{N_2} \quad l := \frac{V}{N_3} \quad m := \frac{W}{N_4} \quad n := \frac{X}{N_5} \quad o := \frac{Y}{N_6} \quad p := \frac{Z}{N_7}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

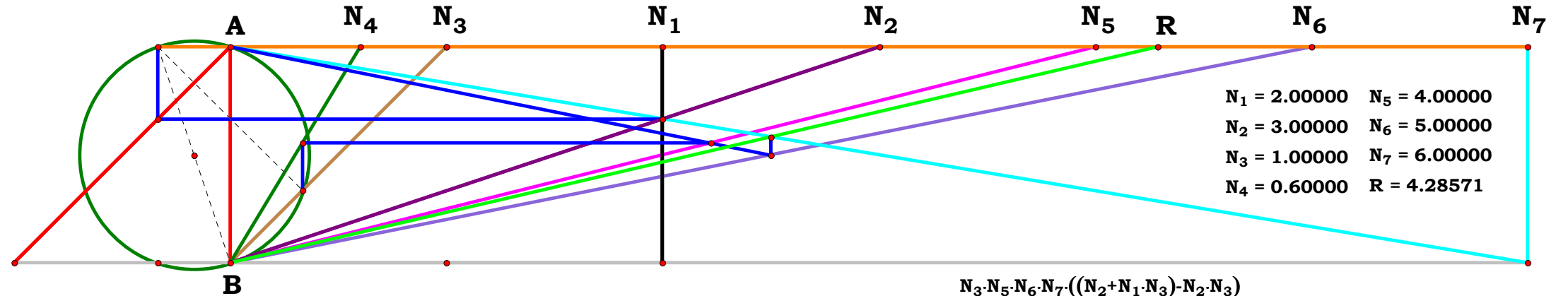
$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$FH := N_5 \cdot FG \quad BJ := \frac{FH}{(AB - FG)}$$

$$BO := \frac{N_6 \cdot BJ}{N_6 + BJ} \quad KO := \frac{N_7 - BO}{N_7}$$

$$R := \frac{BO}{KO} \quad R = 1.842898$$

$N_1 = 1.43090$ $N_3 = 1.24192$ $N_5 = 3.35128$ $N_7 = 3.00259$
 $N_2 = 2.11859$ $N_4 = 0.78432$ $N_6 = 2.69265$ $R = 1.84291$



$N_1 = 2.00000$ $N_5 = 4.00000$
 $N_2 = 3.00000$ $N_6 = 5.00000$
 $N_3 = 1.00000$ $N_7 = 6.00000$
 $N_4 = 0.60000$ $R = 4.28571$

$$\frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_2 \cdot N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) - N_3 \cdot ((N_5 \cdot N_6 - N_5 \cdot N_7) + N_6 \cdot N_7) \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$

Definitions.

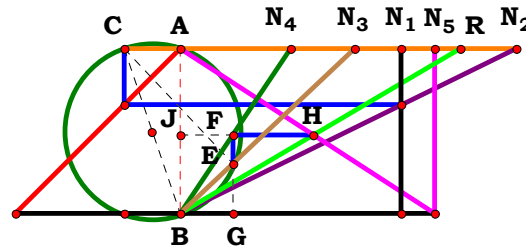
$$R - \frac{N_3 \cdot N_5 \cdot N_6 \cdot N_7 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_2 \cdot N_4 \cdot N_6 \cdot N_7 \cdot (N_3^2 + 1) - N_3 \cdot (N_5 \cdot N_6 - N_5 \cdot N_7 + N_6 \cdot N_7) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0 \quad N_7 - \frac{N_u}{G} = 0$$

$$R - \frac{D \cdot N_u \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)}{E \cdot [A \cdot N_u^2 + (A \cdot D - B \cdot D) \cdot N_u + A \cdot C \cdot (C - D)] + D \cdot (F - G) \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)} = 0$$

$$N_1 - \frac{T}{j} = 0 \quad N_2 - \frac{U}{k} = 0 \quad N_3 - \frac{V}{l} = 0 \quad N_4 - \frac{W}{m} = 0 \quad N_5 - \frac{X}{n} = 0 \quad N_6 - \frac{Y}{o} = 0 \quad N_7 - \frac{Z}{p} = 0$$

$$R - \frac{V \cdot X \cdot Y \cdot Z \cdot m \cdot (T \cdot V \cdot k - U \cdot V \cdot j + U \cdot j \cdot l)}{W \cdot U \cdot Y \cdot Z \cdot j \cdot n \cdot (V^2 + l^2) - V \cdot m \cdot (X \cdot Y \cdot p - X \cdot Z \cdot o + Y \cdot Z \cdot n) \cdot (T \cdot V \cdot k - U \cdot V \cdot j + U \cdot j \cdot l)} = 0$$



$N_1 = 1.33405$
 $N_2 = 2.03142$
 $N_3 = 1.05789$
 $N_4 = 0.66809$
 $N_5 = 1.54004$
 $R = 1.69633$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$HJ := N_5 \cdot (AB - FG) \quad R := \frac{HJ}{FG}$$

$$R = 1.696324$$

Definitions.

$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3 \cdot N_5 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)}{N_3 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [A \cdot C^2 + A \cdot N_u^2 - A \cdot C \cdot D + D \cdot N_u \cdot (A - B)]}{A \cdot C \cdot D \cdot E - D \cdot E \cdot N_u \cdot (A - B)} = 0$$

$$N_1 - \frac{V}{1} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [Y \cdot W \cdot 1 \cdot (X^2 + n^2) - X \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)]}{X \cdot o \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot 1 + W \cdot 1 \cdot n)} = 0$$

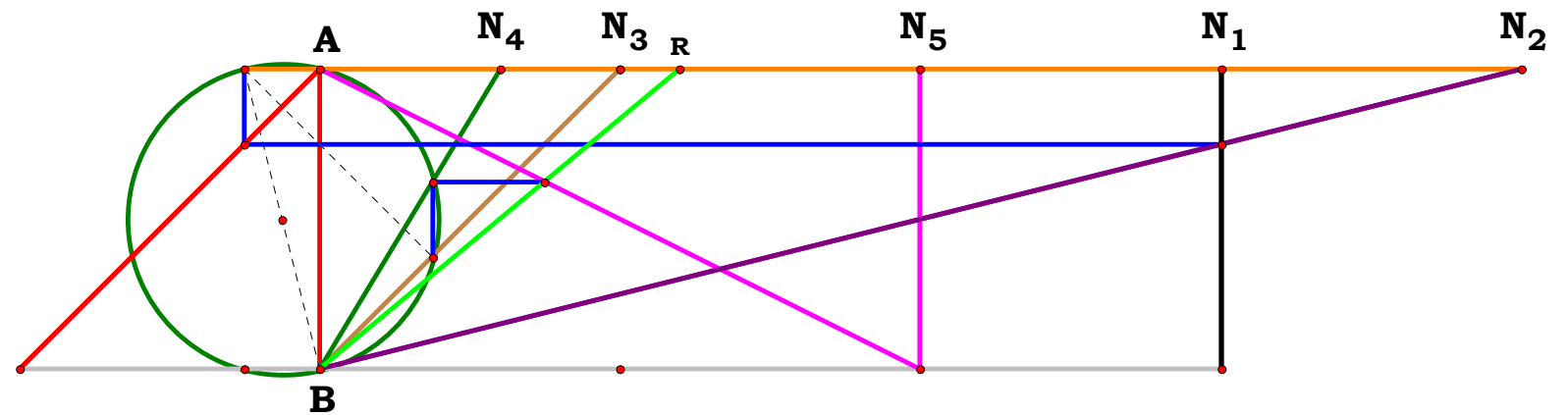
Unit. $AB := 1$ Given. $N_1 := 1.33405$ $N_2 := 2.03142$ $N_3 := 1.05789$

$N_4 := .66809$ $N_5 := 1.54004$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

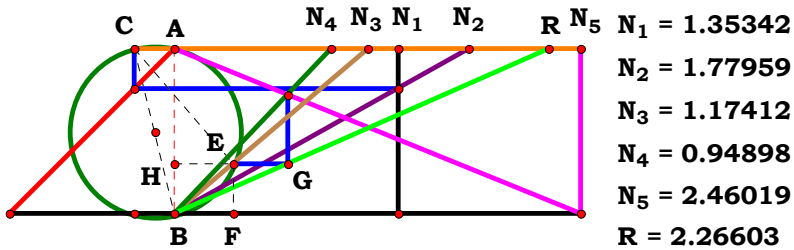
$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$1 := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$



$N_1 = 3.00000$ $N_4 = 0.60000$
 $N_2 = 4.00000$ $N_5 = 2.00000$
 $N_3 = 1.00000$ $R = 1.20000$

$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3 \cdot N_5 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_3 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.35342$ $N_2 := 1.77959$ $N_3 := 1.17412$
 $N_4 := .94898$ $N_5 := 2.46019$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

$$V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$l := \frac{V}{N_1} \quad m := \frac{W}{N_2} \quad n := \frac{X}{N_3} \quad o := \frac{Y}{N_4} \quad p := \frac{Z}{N_5}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{(BN_3 - EN_3)}{BN_3} \quad HG := \frac{N_5 \cdot N_4}{N_5 + N_4}$$

$$R := \frac{HG}{EF} \quad R = 2.266037$$

Definitions.

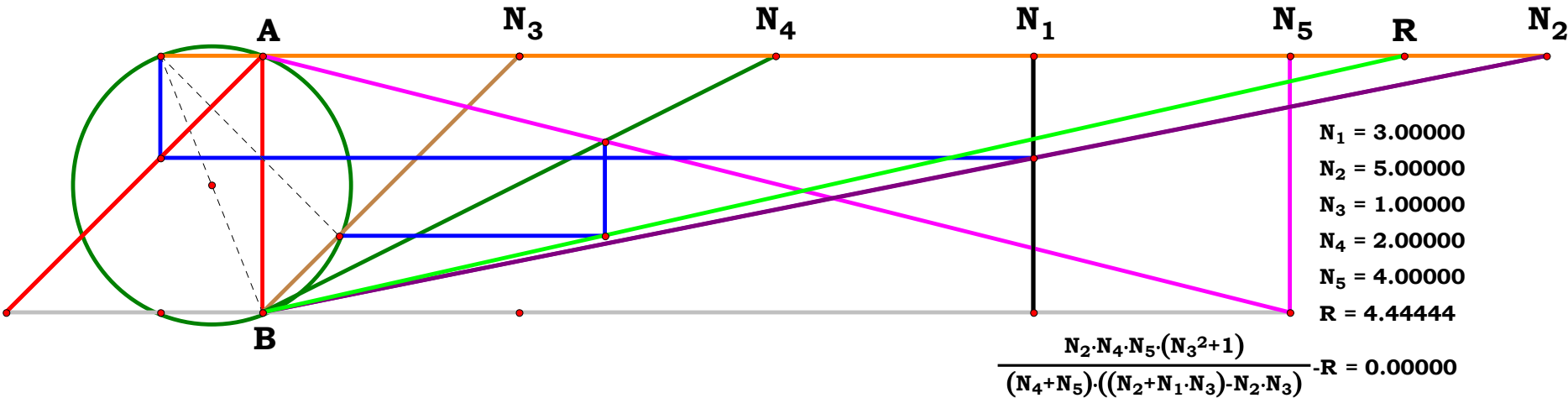
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1)}{(N_4 + N_5) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$

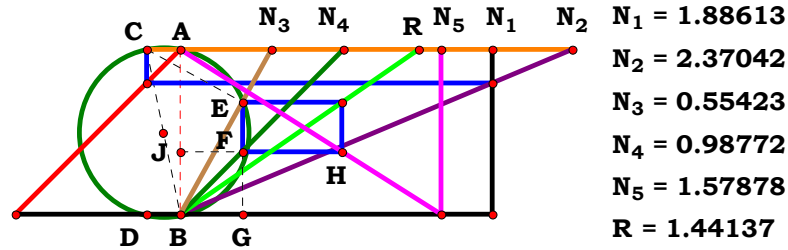
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot (D + E) \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot Y \cdot Z \cdot l \cdot (X^2 + n^2)}{n \cdot (Y \cdot p + Z \cdot o) \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.88613$ $N_2 := 2.37042$ $N_3 := .55423$

$N_4 := .98772$ $N_5 := 1.57878$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$V := 17$ $W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$l := \frac{V}{N_1}$ $m := \frac{W}{N_2}$ $n := \frac{X}{N_3}$ $o := \frac{Y}{N_4}$ $p := \frac{Z}{N_5}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

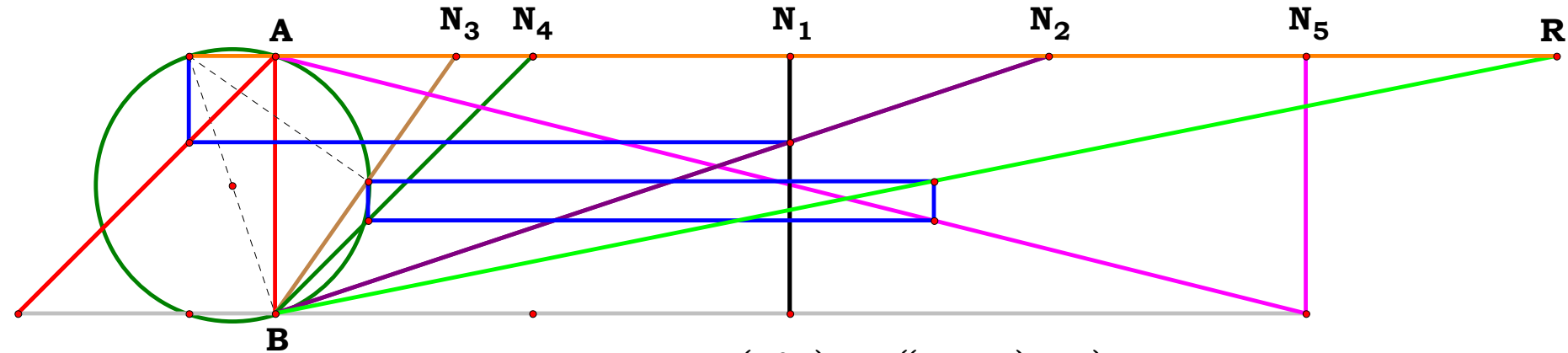
$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BG := \frac{N_3 \cdot (BN_3 - EN_3)}{BN_3} \quad FG := \frac{BG}{N_4}$$

$$JH := N_5 \cdot (AB - FG)$$

$$EG := \frac{BN_3 - EN_3}{BN_3}$$

$$R := \frac{JH}{EG} \quad R = 1.44137$$



$$\frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3 \cdot N_5 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_4 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} - R = 0.00000$$

Definitions.

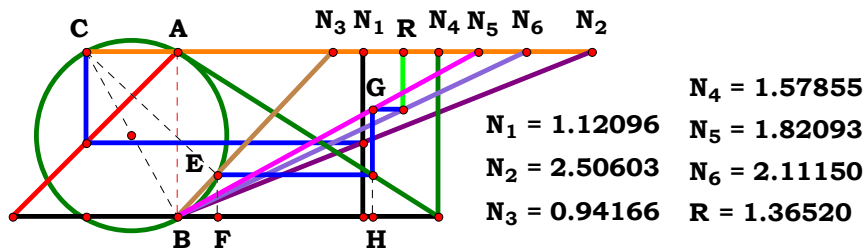
$$R - \frac{N_2 \cdot N_4 \cdot N_5 \cdot (N_3^2 + 1) - N_3 \cdot N_5 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)}{N_4 \cdot ((N_2 + N_1 \cdot N_3) - N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0$$

$$R - \frac{N_u \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)]}{A \cdot C^2 \cdot E - C \cdot E \cdot N_u \cdot (A - B)} = 0$$

$$N_1 - \frac{V}{l} = 0 \quad N_2 - \frac{W}{m} = 0 \quad N_3 - \frac{X}{n} = 0 \quad N_4 - \frac{Y}{o} = 0 \quad N_5 - \frac{Z}{p} = 0$$

$$R - \frac{Z \cdot [Y \cdot W \cdot l \cdot (X^2 + n^2) - X \cdot o \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)]}{Y \cdot n \cdot p \cdot (V \cdot X \cdot m - W \cdot X \cdot l + W \cdot l \cdot n)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.12096$ $N_2 := 2.50603$ $N_3 := .94166$
 $N_4 := 1.57855$ $N_5 := 1.82093$ $N_6 := 2.11150$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$EF := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - EF)$$

$$GH := \frac{BH}{N_5} \quad R := N_6 \cdot GH$$

$$R = 1.365198$$

Definitions.

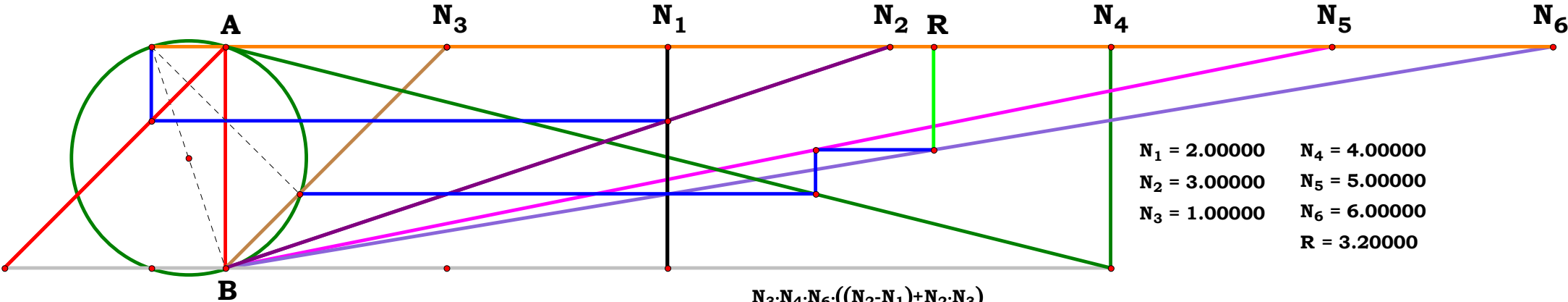
$$R - \frac{N_3 \cdot N_4 \cdot N_6 \cdot (N_2 - N_1 + N_2 \cdot N_3)}{N_2 \cdot N_5 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

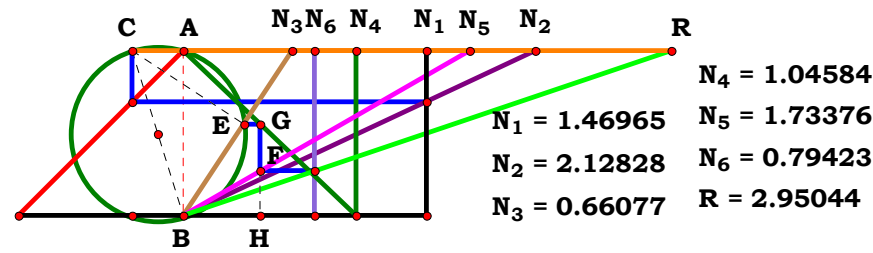
$$R - \frac{E \cdot N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot (V \cdot W \cdot k - U \cdot l \cdot m + V \cdot k \cdot m)}{p \cdot (V \cdot Y \cdot k \cdot n \cdot W^2 + V \cdot Y \cdot k \cdot n \cdot m^2)} = 0$$



$$\frac{N_3 \cdot N_4 \cdot N_6 \cdot ((N_2 - N_1) + N_2 \cdot N_3)}{N_2 \cdot N_5 \cdot (N_3^2 + 1)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.12828$ $N_3 := .66077$
 $N_4 := 1.04584$ $N_5 := 1.73376$ $N_6 := .79423$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

$$U := 18 \quad V := 17 \quad W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17$$

$$k := \frac{U}{N_1} \quad l := \frac{V}{N_2} \quad m := \frac{W}{N_3} \quad n := \frac{X}{N_4} \quad o := \frac{Y}{N_5} \quad p := \frac{Z}{N_6}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_3 := \sqrt{N_3^2 + AB^2}$$

$$CN_3 := N_3 + AC \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$GH := \frac{BN_3 - EN_3}{BN_3} \quad BH := N_4 \cdot (AB - GH)$$

$$FH := \frac{BH}{N_5} \quad R := \frac{N_6}{FH}$$

$$R = 2.950417$$

Definitions.

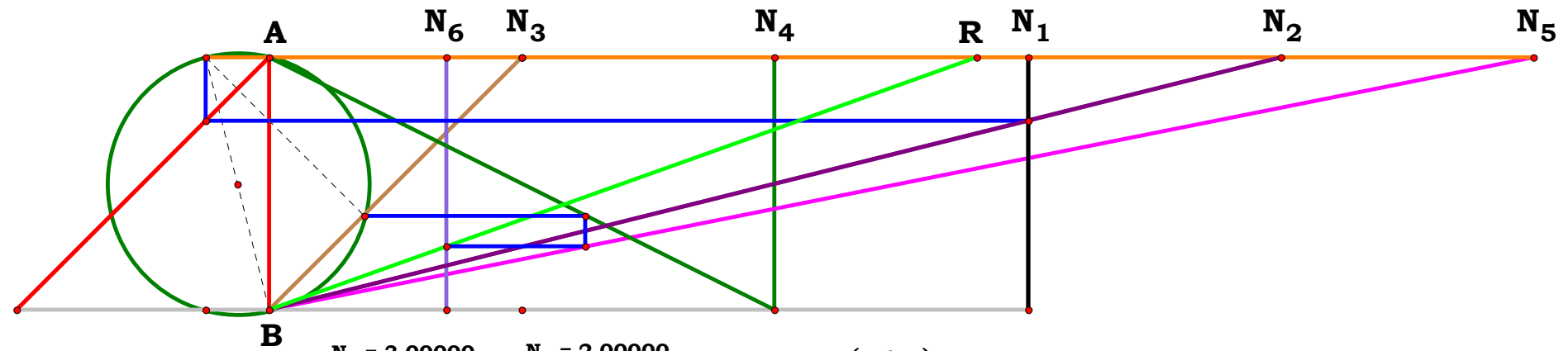
$$R - \frac{N_2 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot (N_2 - N_1 + N_2 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0 \quad N_5 - \frac{N_u}{E} = 0 \quad N_6 - \frac{N_u}{F} = 0$$

$$R - \frac{A \cdot D \cdot (C^2 + N_u^2)}{A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)} = 0$$

$$N_1 - \frac{U}{k} = 0 \quad N_2 - \frac{V}{l} = 0 \quad N_3 - \frac{W}{m} = 0 \quad N_4 - \frac{X}{n} = 0 \quad N_5 - \frac{Y}{o} = 0 \quad N_6 - \frac{Z}{p} = 0$$

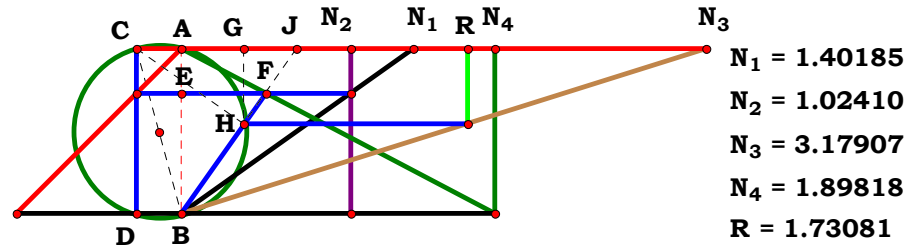
$$R - \frac{V \cdot Y \cdot Z \cdot k \cdot n \cdot (W^2 + m^2)}{o \cdot p \cdot W \cdot X \cdot (V \cdot W \cdot k - U \cdot l \cdot m + V \cdot k \cdot m)} = 0$$



$$\frac{N_2 \cdot N_5 \cdot N_6 \cdot (N_3^2 + 1)}{N_3 \cdot N_4 \cdot ((N_2 - N_1) + N_2 \cdot N_3)} - R = 0.00000$$



4RST7AB1R0



Unit. $AB := 1$ Given. $N_1 := 1.40185$ $N_2 := 1.02410$ $N_3 := 3.17907$

$N_4 := 1.89818$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AE := \frac{N_1 - N_2}{N_1} \quad EF := N_4 \cdot AE \quad AJ := \frac{EF}{AB - AE}$$

$$BJ := \sqrt{AB^2 + AJ^2} \quad HJ := \frac{AJ + AC}{BJ}$$

$$HG := \frac{AJ \cdot HJ}{BJ} \quad R := N_3 \cdot (AB - HG)$$

$R = 1.730791$

Definitions.

This template has two opening variables.

$$R - \frac{N_3 \cdot (AE - 1) \cdot (AE + AC \cdot AE \cdot N_4 - 1)}{AE^2 \cdot N_4^2 + AE^2 - 2 \cdot AE + 1} = 0$$

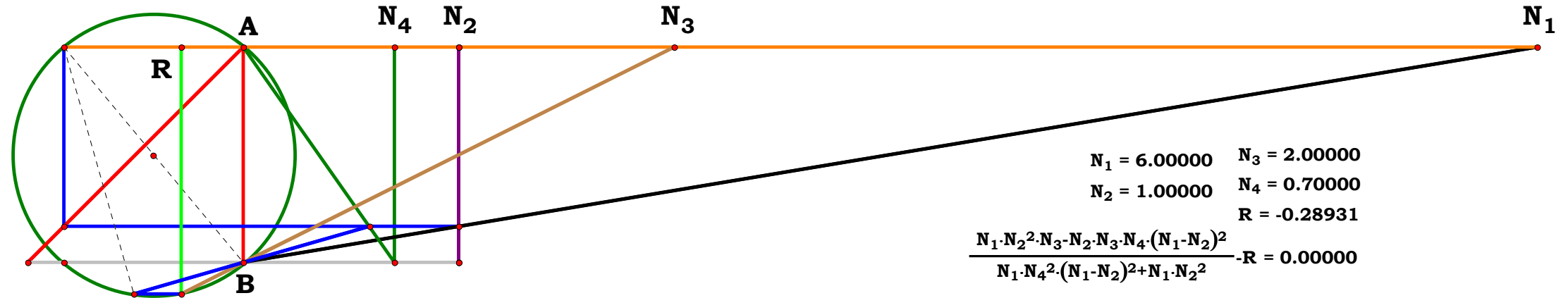
$$R - \frac{N_1 \cdot N_2^2 \cdot N_3 - N_2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_2)^2}{N_1 \cdot N_4^2 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot D \cdot N_u \cdot [A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2)]}{B \cdot C \cdot [A^2 \cdot (D^2 + N_u^2) - B \cdot N_u^2 \cdot (2 \cdot A - B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot p \cdot [W \cdot X \cdot m \cdot n \cdot p - Z \cdot (W \cdot n - X \cdot m)^2]}{W \cdot n \cdot o \cdot [Z^2 \cdot (W \cdot n - X \cdot m)^2 + X^2 \cdot m^2 \cdot p^2]} = 0$$





4RST7AB1R1

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AE := \frac{N_1 - N_2}{N_1}$$

$$EF := N_4 \cdot AE \quad AM := \frac{EF}{AB - AE}$$

$$BM := \sqrt{AM^2 + AB^2} \quad FM := \frac{AM \cdot (AM + AC)}{BM}$$

$$BG := BM - FM \quad GH := \frac{BG}{BM} \quad BK := N_3 \cdot GH$$

$$JK := \frac{N_4 - BK}{N_4} \quad R := \frac{BK}{JK} \quad R = 0.725292$$

Definitions.

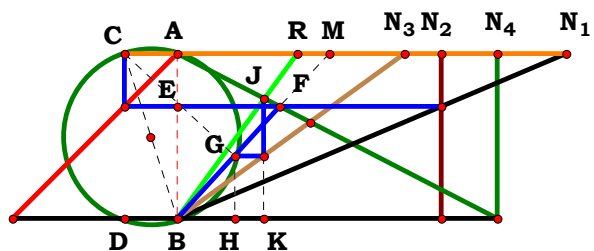
$$R - \frac{N_3 \cdot N_4 \cdot (AE - 1) \cdot (AE + AC \cdot AE \cdot N_4 - 1)}{AE \cdot (2 \cdot N_3 - 2 \cdot N_4 + AC \cdot N_3 \cdot N_4) - AE^2 \cdot (N_3 - N_4 - N_4^3 + AC \cdot N_3 \cdot N_4) + N_4 - N_3} = 0$$

$$R - \frac{N_1 \cdot N_2^2 \cdot N_3 \cdot N_4 - N_2 \cdot N_3 \cdot N_4^2 \cdot (N_1 - N_2)^2}{N_4 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot D \cdot N_u \cdot [A \cdot B \cdot D - N_u \cdot (A - B)^2]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot m \cdot p \cdot [Z \cdot (W \cdot n - X \cdot m)^2 - W \cdot X \cdot m \cdot n \cdot p]}{W \cdot X^2 \cdot Y \cdot m^2 \cdot n \cdot p^3 - Z^3 \cdot W \cdot n \cdot o \cdot (W \cdot n - X \cdot m)^2 - Z \cdot X \cdot m \cdot p^2 \cdot [W^2 \cdot Y \cdot n^2 + X^2 \cdot Y \cdot m^2 - W \cdot X \cdot m \cdot n \cdot (2 \cdot Y - o)]} = 0$$



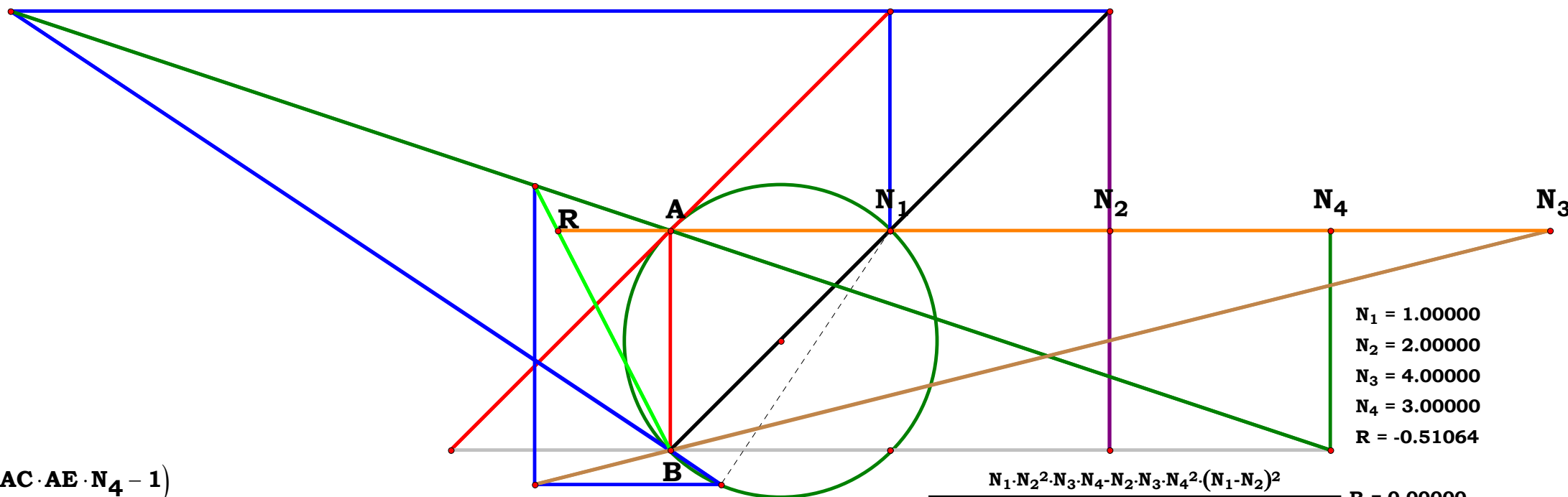
$N_1 = 2.35105$
 $N_2 = 1.59556$
 $N_3 = 1.37752$
 $N_4 = 1.93693$
 $R = 0.72529$

Unit. $AB := 1$ Given. $N_1 := 2.35105$ $N_2 := 1.59556$ $N_3 := 1.37752$

$N_4 := 1.93693$

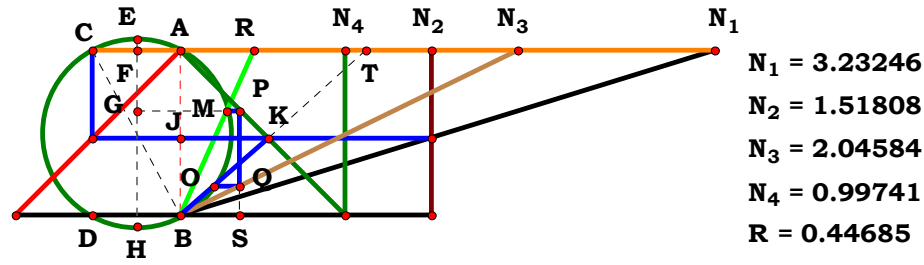
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 3.00000$
 $R = -0.51064$

$$\frac{N_1 \cdot N_2^2 \cdot N_3 \cdot N_4 - N_2 \cdot N_3 \cdot N_4^2 \cdot (N_1 - N_2)^2}{N_4 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot (N_3 - N_4)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3.23246$ $N_2 := 1.51808$ $N_3 := 2.04584$ $N_4 := .99741$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AJ := \frac{N_1 - N_2}{N_1}$$

$$JK := N_4 \cdot AJ \quad AT := \frac{JK}{AB - AJ}$$

$$EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad BT := \sqrt{AB^2 + AT^2}$$

$$CT := AT + AC \quad OT := \frac{CT \cdot AT}{BT}$$

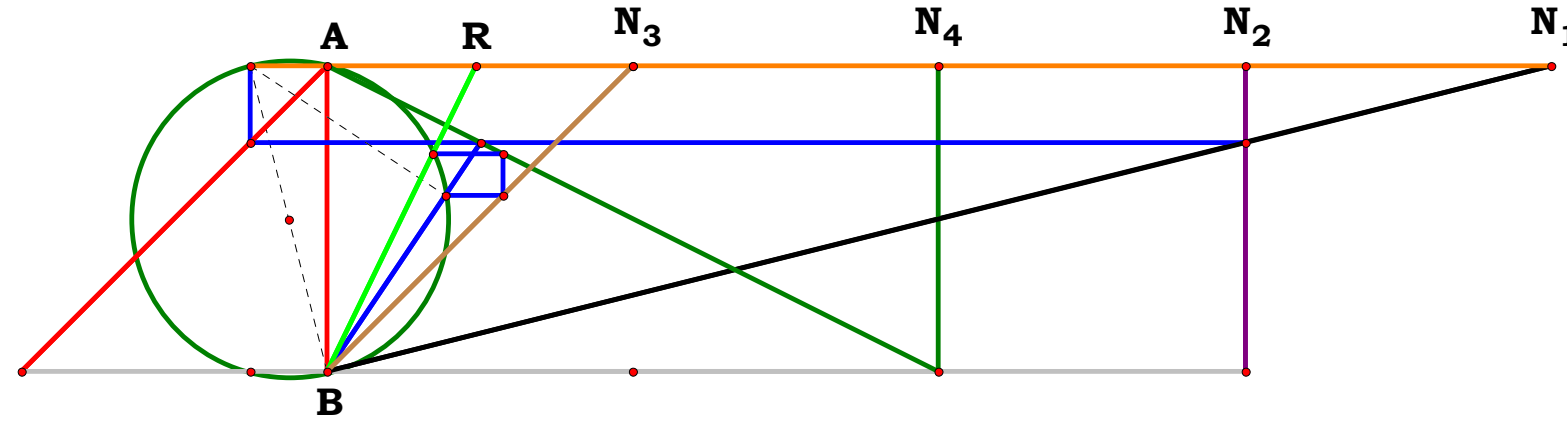
$$BO := BT - OT \quad OS := \frac{BO}{BT}$$

$$BS := N_3 \cdot OS \quad PS := \frac{N_4 - BS}{N_4}$$

$$GH := PS + EF \quad GM := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GM - AF}{PS} \quad R = 0.446856$$

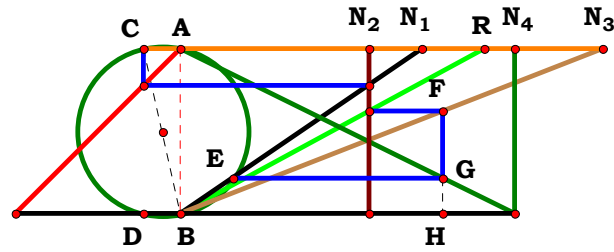
Definitions.



$$R - \frac{N_4 \cdot \left[\sqrt{N_4^6 \cdot (N_1 - N_2)^6 - 4 \cdot N_1^2 \cdot N_2^4 \cdot N_3^2 + N_2^2 \cdot N_4^2 \cdot (N_1 - N_2)^2 \cdot \left[4 \cdot N_2 \cdot N_3 \cdot (2 \cdot N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4) + N_2^2 \right]} \dots \dots \right] \cdot \left[N_4^2 \cdot (N_1 - N_2)^2 + N_2^2 \right]}{2 \cdot \sqrt{N_4^2 \cdot \left[N_1 \cdot N_4^2 \cdot (N_1 - 2 \cdot N_2) + N_2^2 \cdot (N_4^2 + 1) \right]^2 \cdot \left[N_1 \cdot (N_1^2 \cdot N_4^3 + N_2^2 \cdot N_4 - N_3 \cdot N_2^2) + N_2^2 \cdot N_4 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) + N_1 \cdot N_2 \cdot N_4 \cdot (N_1 \cdot N_3 - 2 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_4^2) \right]}} = 0$$



4RST7AB1R3



$N_1 = 1.45996$
 $N_2 = 1.14033$
 $N_3 = 2.55918$
 $N_4 = 2.02410$
 $R = 1.84199$

Unit. $AB := 1$ Given. $N_1 := 1.45996$ $N_2 := 1.14033$ $N_3 := 2.55918$

$N_4 := 2.0241$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad CN_1 := AC + N_1$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad EN_1 := \frac{N_1 \cdot CN_1}{BN_1}$$

$$BE := BN_1 - EN_1 \quad GH := \frac{BE}{BN_1}$$

$$BH := N_4 \cdot (AB - GH) \quad FH := \frac{BH}{N_3}$$

$$R := \frac{N_2}{FH} \quad R = 1.841985$$

Definitions.

$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1 \cdot N_4 \cdot (AC + N_1)} = 0$$

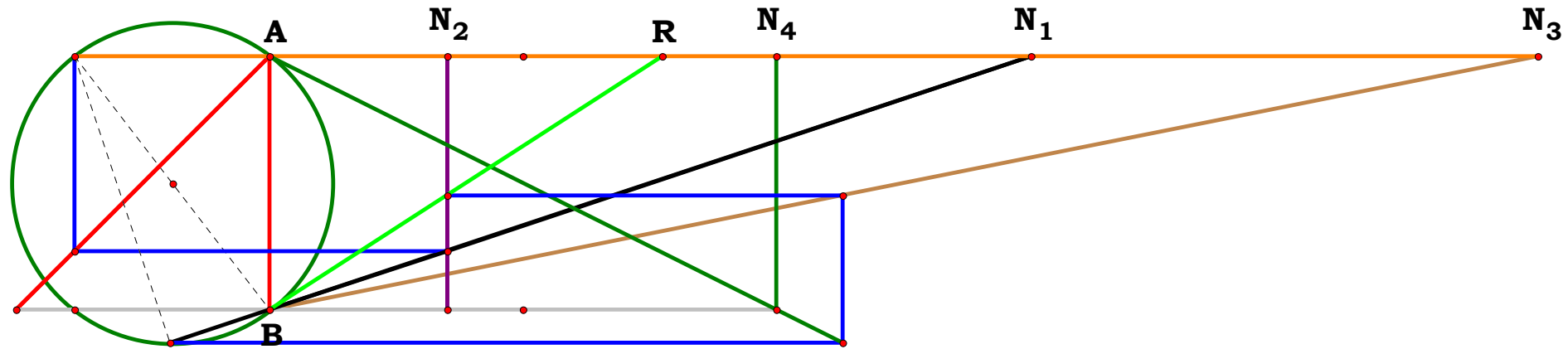
$$R - \frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_4 \cdot (N_1^2 + N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

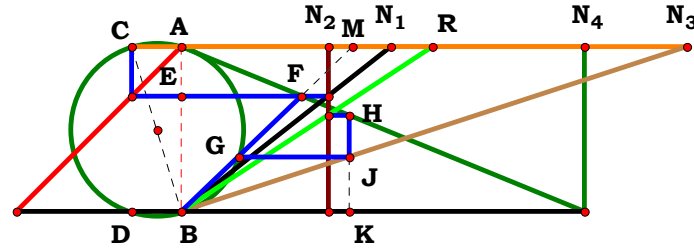
$$R - \frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot p \cdot (W^2 + m^2)}{Z \cdot o \cdot (n \cdot W^2 + n \cdot W \cdot m - X \cdot m^2)} = 0$$



$N_1 = 3.00000$ $N_2 = 0.70000$ $N_3 = 5.00000$
 $N_4 = 2.00000$ $R = 1.54867$
 $\frac{N_2 \cdot N_3 \cdot (N_1^2 + 1)}{N_4 \cdot ((N_1^2 + N_1) - N_2)} - R = 0.00000$



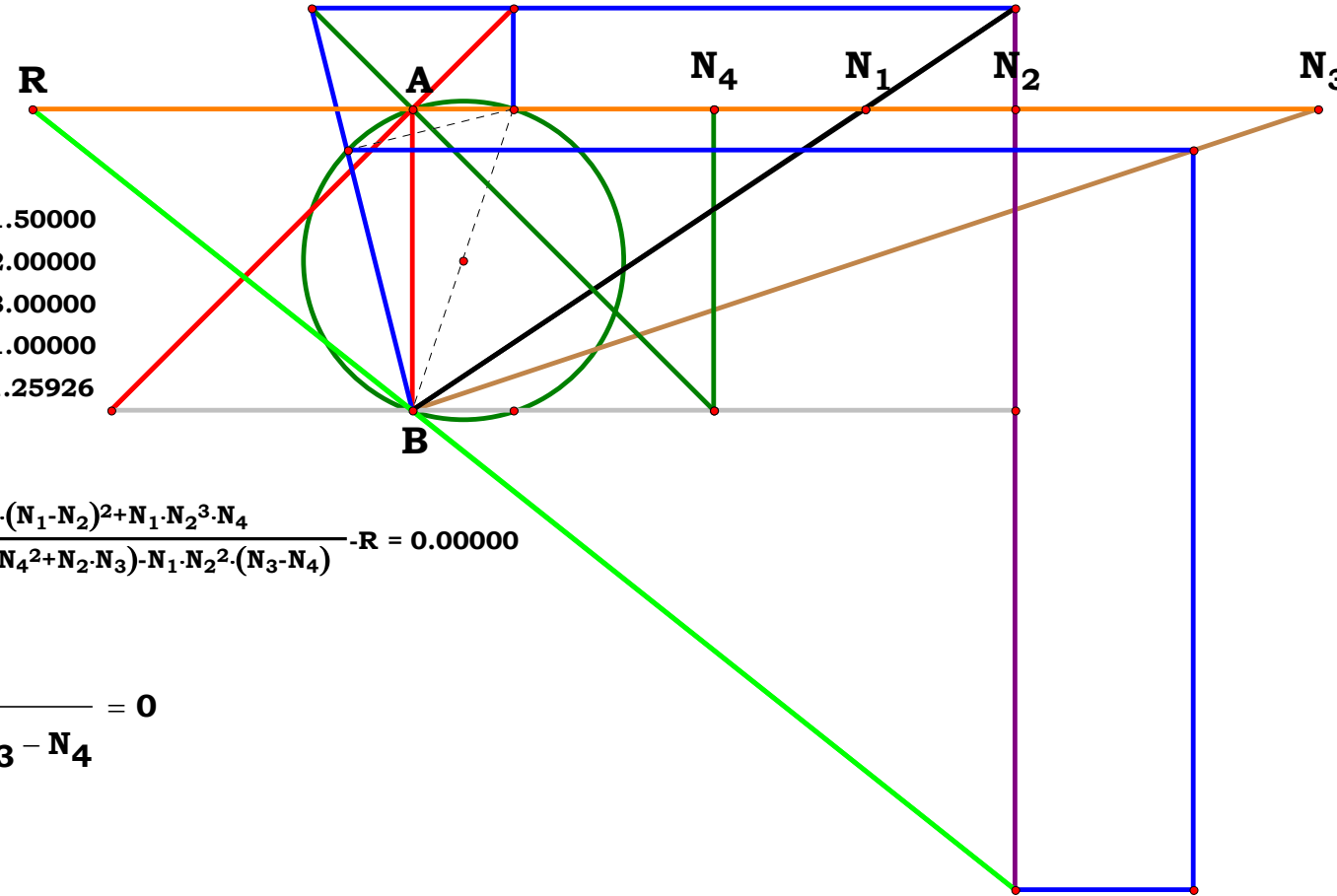
$N_1 = 1.26624$
 $N_2 = 0.88850$
 $N_3 = 3.06284$
 $N_4 = 2.44059$
 $R = 1.52469$

Unit. $AB := 1$ Given. $N_1 := 1.26624$ $N_2 := .88850$ $N_3 := 3.06284$

$N_4 := 2.44059$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 1.50000$
 $N_2 = 2.00000$
 $N_3 = 3.00000$
 $N_4 = 1.00000$
 $R = -1.25926$

$$\frac{N_1 \cdot N_2 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^3 \cdot N_4}{N_4 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot (N_3 - N_4)} - R = 0.00000$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AE := \frac{N_1 - N_2}{N_1} \quad EF := N_4 \cdot AE$$

$$AM := \frac{EF}{AB - AE} \quad CM := AM + AC \quad BM := \sqrt{AB^2 + AM^2}$$

$$GM := \frac{AM \cdot CM}{BM} \quad BG := BM - GM \quad JK := \frac{BG}{BM}$$

$$BK := N_3 \cdot JK \quad HK := \frac{N_4 - BK}{N_4}$$

$$R := \frac{N_2}{HK} \quad R = 1.524717$$

Definitions.

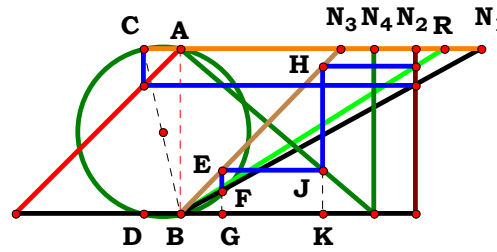
$$R - \frac{2 \cdot N_2 \cdot N_4 \cdot AE - N_2 \cdot N_4 - (N_2 \cdot N_4^3 + N_2 \cdot N_4) \cdot AE^2}{(N_3 - N_4 - N_4^3 + AC \cdot N_3 \cdot N_4) \cdot AE^2 + (2 \cdot N_4 - 2 \cdot N_3 - AC \cdot N_3 \cdot N_4) \cdot AE + N_3 - N_4} = 0$$

$$R - \frac{N_1 \cdot N_2 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^3 \cdot N_4}{N_4 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot (N_3 - N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^3 \cdot C \cdot (A - B)^2 + A^2 \cdot C \cdot D^2 \cdot N_u}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 0 \quad N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Z^3 \cdot W \cdot X \cdot o \cdot (W \cdot n - X \cdot m)^2 + W \cdot X^3 \cdot m^2 \cdot o \cdot p^2 \cdot Z}{Z^3 \cdot W \cdot n \cdot o \cdot (W \cdot n - X \cdot m)^2 + Z \cdot X \cdot m \cdot p^2 \cdot [Y \cdot n^2 \cdot W^2 - W \cdot X \cdot m \cdot n \cdot (2 \cdot Y - o) + X^2 \cdot Y \cdot m^2]} - W \cdot X^2 \cdot Y \cdot m^2 \cdot n \cdot p^3 = 0$$



$N_1 = 1.81833$
 $N_2 = 1.42122$
 $N_3 = 0.97071$
 $N_4 = 1.17175$
 $R = 1.59589$

Unit. $AB := 1$ Given. $N_1 := 1.81833$ $N_2 := 1.42122$ $N_3 := .97071$
 $N_4 := 1.17175$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$AC := AB - \frac{N_2}{N_1} \quad CN_1 := AC + N_1 \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot CN_1}{BN_1} \quad BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$EG := \frac{BG}{N_3} \quad BK := N_4 \cdot (AB - EG)$$

$$HK := \frac{BK}{N_3} \quad R := \frac{N_2}{HK} \quad R = 1.595902$$

Definitions.

$$R - \frac{N_2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_3 \cdot N_4 - N_1 \cdot N_4 + AC \cdot N_1^2 \cdot N_4 + N_1^2 \cdot N_3 \cdot N_4} = 0$$

$$R - \frac{N_2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_4 \cdot (N_3 - N_1 + N_1^2 \cdot N_3 + N_1^2 - N_1 \cdot N_2)} = 0$$

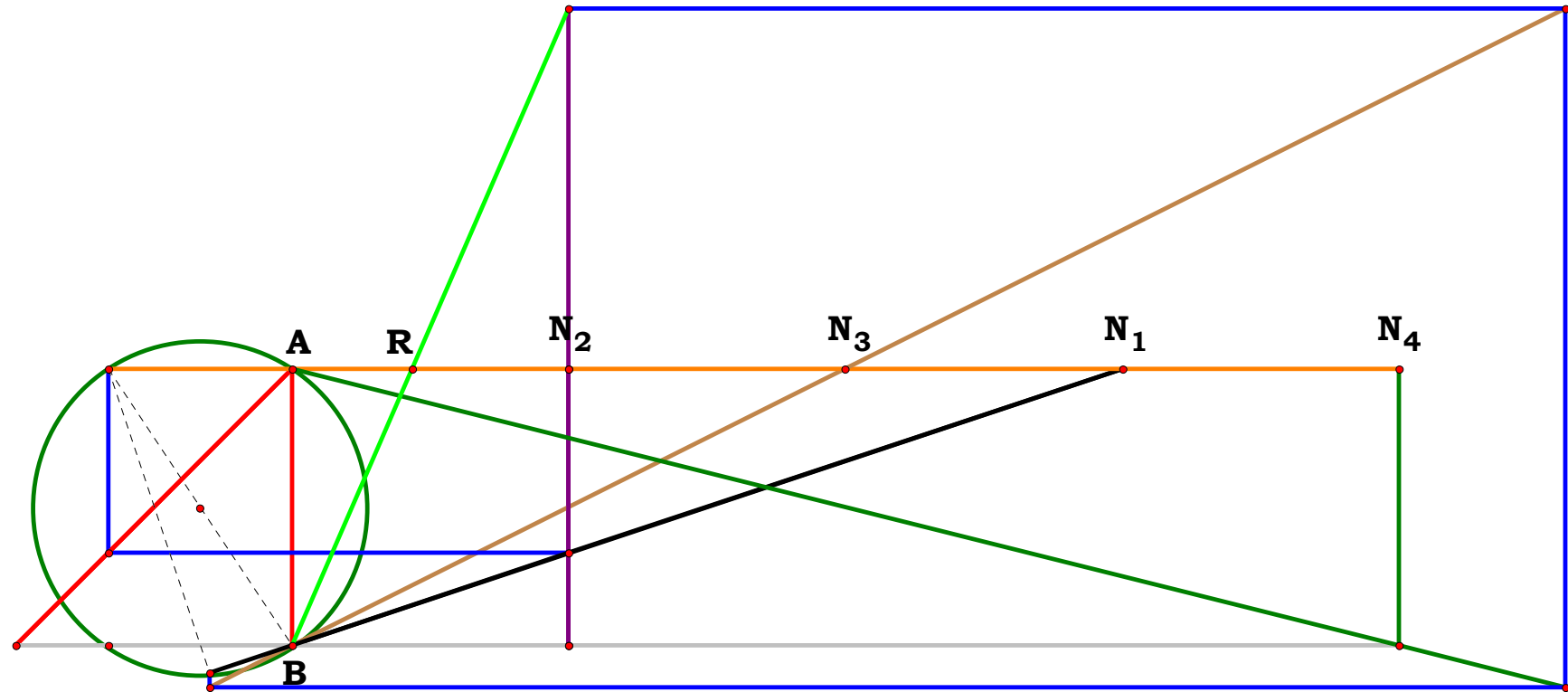
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot N_u \cdot (A^2 + N_u^2)}{B \cdot C \cdot N_u^2 - N_u \cdot C^2 \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

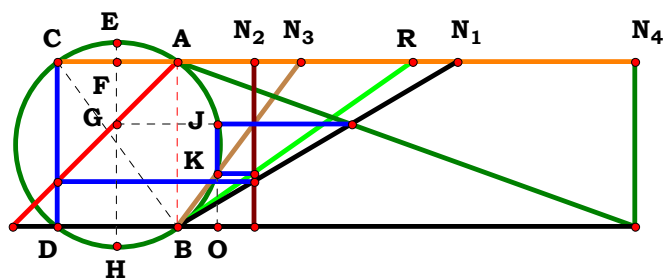
$$R - \frac{X \cdot Y^2 \cdot p \cdot (W^2 + m^2)}{Y \cdot Z \cdot n \cdot o \cdot (W^2 + m^2) + W \cdot Z \cdot o^2 \cdot (W \cdot n - X \cdot m - m \cdot n)} = 0$$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 2.00000$
 $N_4 = 4.00000$
 $R = 0.43478$

$$\frac{N_2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_4 \cdot (((N_3 - N_1) + N_1^2 \cdot N_3 + N_1^2) - N_1 \cdot N_2)} \cdot R = 0.00000$$



N₁ = 1.69242
N₂ = 0.46232
N₃ = 0.74794
N₄ = 2.77486
R = 1.42468

Unit. $AB := 1$ **Given.** $N_1 := 1.69242$ $N_2 := .46232$ $N_3 := .74794$
 $N_4 := 2.77486$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\mathbf{AC} := \mathbf{AB} - \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{AF} := \frac{\mathbf{AC}}{2}$$

$$\mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2} \quad \mathbf{JO} := \frac{\mathbf{N}_4}{\mathbf{N}_4 + \mathbf{N}_1} \quad \mathbf{GH} := \mathbf{JO} + \mathbf{EF}$$

$$\mathbf{GJ} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})} \quad \mathbf{BO} := \mathbf{GJ} - \mathbf{AF}$$

$$\text{KO} := \frac{\text{BO}}{\text{N}_3} \quad \text{R} := \frac{\text{N}_2}{\text{KO}} \quad \text{R} = 1.424669$$

Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot \sqrt{(N_1 + N_4)^2}}{\sqrt{AC^2 \cdot N_1^2 + 2 \cdot AC^2 \cdot N_1 \cdot N_4 + AC^2 \cdot N_4^2 + 4 \cdot N_1 \cdot N_4 - AC \cdot \sqrt{(N_1 + N_4)^2}}} = 0$$

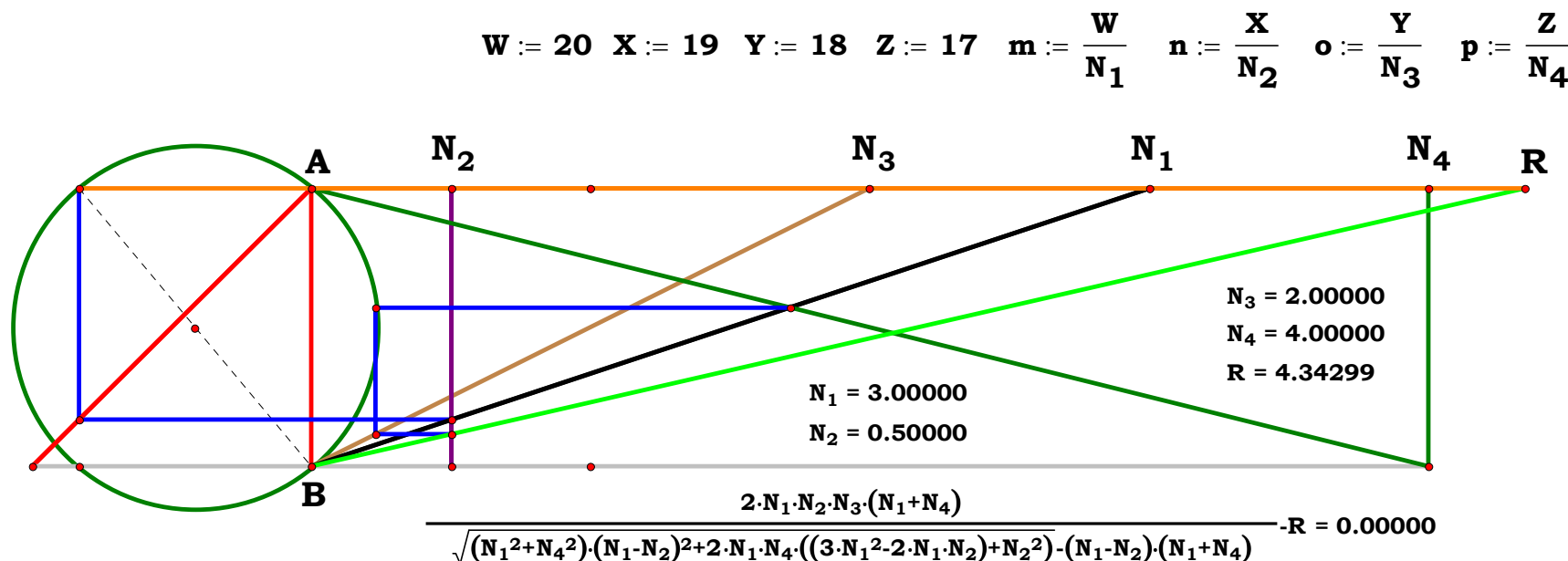
$$\mathbf{R} - \frac{2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_4)}{\sqrt{(\mathbf{N}_1^2 + \mathbf{N}_4^2) \cdot (\mathbf{N}_1 - \mathbf{N}_2)^2 + 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_4 \cdot (3 \cdot \mathbf{N}_1^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 + \mathbf{N}_2^2)} - (\mathbf{N}_1 + \mathbf{N}_4) \cdot (\mathbf{N}_1 - \mathbf{N}_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{D})}{\mathbf{C} \cdot \left[\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D} + \sqrt{(\mathbf{A}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)} \right]} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

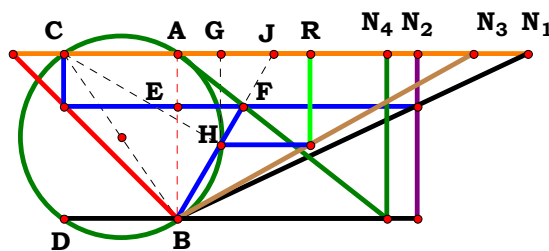
$$\mathbf{R} - \frac{2 \cdot \mathbf{W} \cdot \mathbf{X} \cdot \mathbf{Y} \cdot (\mathbf{W} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{m})}{\mathbf{o} \cdot \left[\sqrt{\mathbf{X} \cdot \mathbf{m} \cdot (\mathbf{W} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{m})^2 \cdot (\mathbf{X} \cdot \mathbf{m} - 2 \cdot \mathbf{W} \cdot \mathbf{n}) + \mathbf{W}^2 \cdot \mathbf{n}^2 \cdot (\mathbf{W}^2 \cdot \mathbf{p}^2 + 6 \cdot \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{p} + \mathbf{Z}^2 \cdot \mathbf{m}^2)} - (\mathbf{W} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{m}) \cdot (\mathbf{W} \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m}) \right]} = 0$$



N₃ = 2.00000
N₄ = 4.00000
R = 4.34299

N₁ = 3.00000
N₂ = 0.50000

$$\frac{2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{(N_1^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_1 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2) + N_2^2) - (N_1 - N_2) \cdot (N_1 + N_4)}} \cdot R = 0.00000$$



$N_1 = 2.11859$
 $N_2 = 1.45027$
 $N_3 = 1.79401$
 $N_4 = 1.26861$
 $R = 0.80198$

Unit. $AB := 1$ Given. $N_1 := 2.11859$ $N_2 := 1.45027$ $N_3 := 1.79401$

$N_4 := 1.26861$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$AC := \frac{N_2}{N_1}$ $AE := \frac{N_1 - N_2}{N_1}$ $EF := N_4 \cdot AE$ $AJ := \frac{EF}{AB - AE}$ $BJ := \sqrt{AB^2 + AJ^2}$

$HJ := \frac{AJ + AC}{BJ}$

$HG := \frac{AJ \cdot HJ}{BJ}$

$R := N_3 \cdot (AB - HG)$

$R = 0.801978$

Definitions.

$R - \frac{N_2^2 \cdot N_3 \cdot (N_1 - N_1 \cdot N_4 + N_2 \cdot N_4)}{N_1 \cdot N_4^2 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^2} = 0$

$N_1 - \frac{N_u}{A} = 0$ $N_2 - \frac{N_u}{B} = 0$

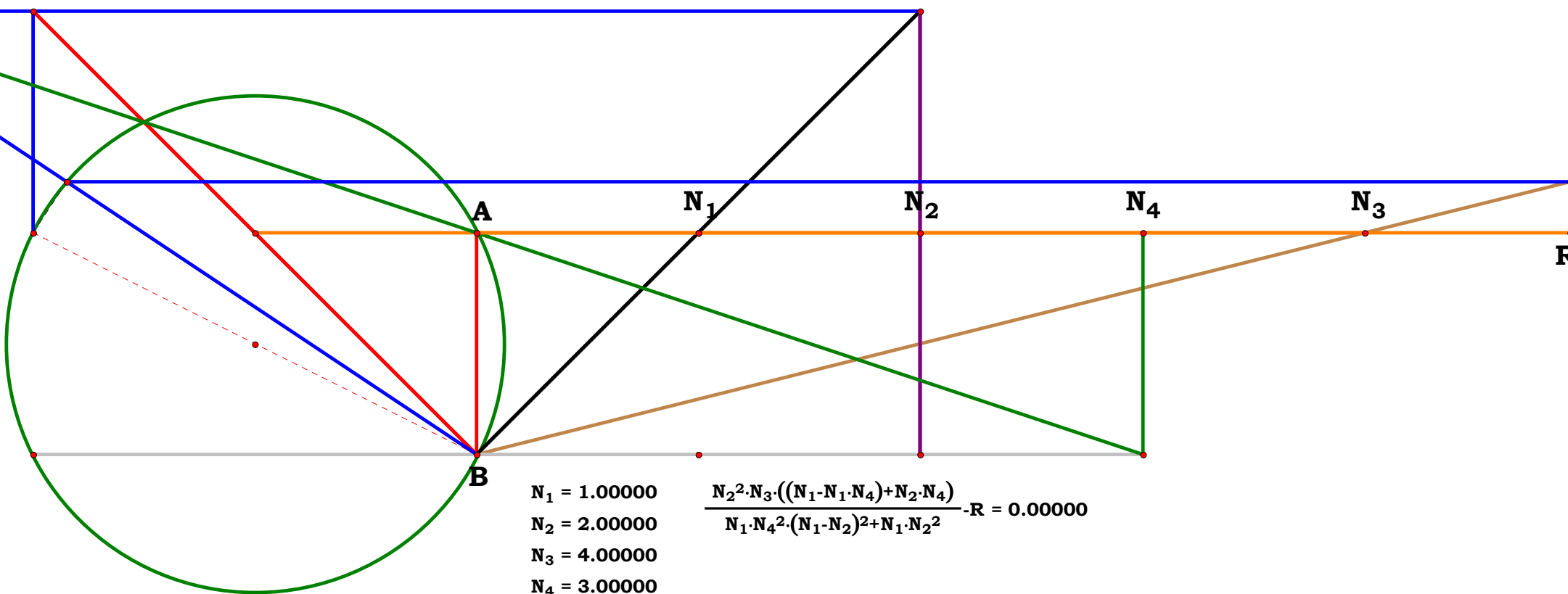
$N_3 - \frac{N_u}{C} = 0$ $N_4 - \frac{N_u}{D} = 0$

$R - \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2} = 0$

$N_1 - \frac{W}{m} = 0$ $N_2 - \frac{X}{n} = 0$ $N_3 - \frac{Y}{o} = 0$ $N_4 - \frac{Z}{p} = 0$

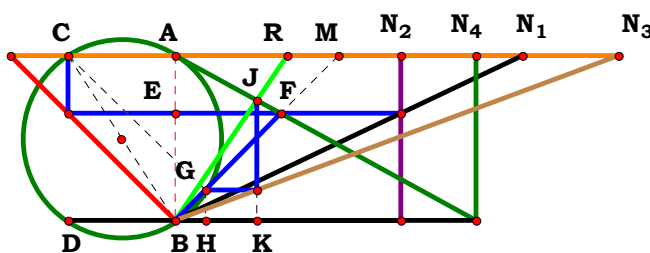
$R - \frac{X^2 \cdot Y \cdot m^2 \cdot p \cdot (X \cdot Z \cdot m - W \cdot Z \cdot n + W \cdot n \cdot p)}{Z^2 \cdot W \cdot n \cdot o \cdot (W \cdot n - X \cdot m)^2 + W \cdot X^2 \cdot m^2 \cdot n \cdot o \cdot p^2} = 0$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 3.00000$
 $R = 4.92308$

$\frac{N_2^2 \cdot N_3 \cdot ((N_1 - N_1 \cdot N_4) + N_2 \cdot N_4)}{N_1 \cdot N_4^2 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^2} - R = 0.00000$



Unit. AB := 1 Given. $N_1 := 2.09922$ $N_2 := 1.36310$ $N_3 := 2.68510$ $N_4 := 1.82070$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{N_2}{N_1} \quad \mathbf{AE} := \frac{N_1 - N_2}{N_1} \quad \mathbf{EF} := N_4 \cdot \mathbf{AE}$$

$$\mathbf{AM} := \frac{\mathbf{EF}}{\mathbf{AB} - \mathbf{AE}} \quad \mathbf{BM} := \sqrt{\mathbf{AM}^2 + \mathbf{AB}^2}$$

$$\mathbf{FM} := \frac{\mathbf{AM} \cdot (\mathbf{AM} + \mathbf{AC})}{\mathbf{BM}} \qquad \mathbf{BG} := \mathbf{BM} - \mathbf{FM}$$

$$\mathbf{GH} := \frac{\mathbf{BG}}{\mathbf{BM}} \quad \mathbf{BK} := \mathbf{N}_3 \cdot \mathbf{GH}$$

$$\mathbf{JK} := \frac{\mathbf{N}_4 - \mathbf{BK}}{\mathbf{N}_4} \quad \mathbf{R} := \frac{\mathbf{BK}}{\mathbf{JK}}$$

R = 0.677186

Definitions.

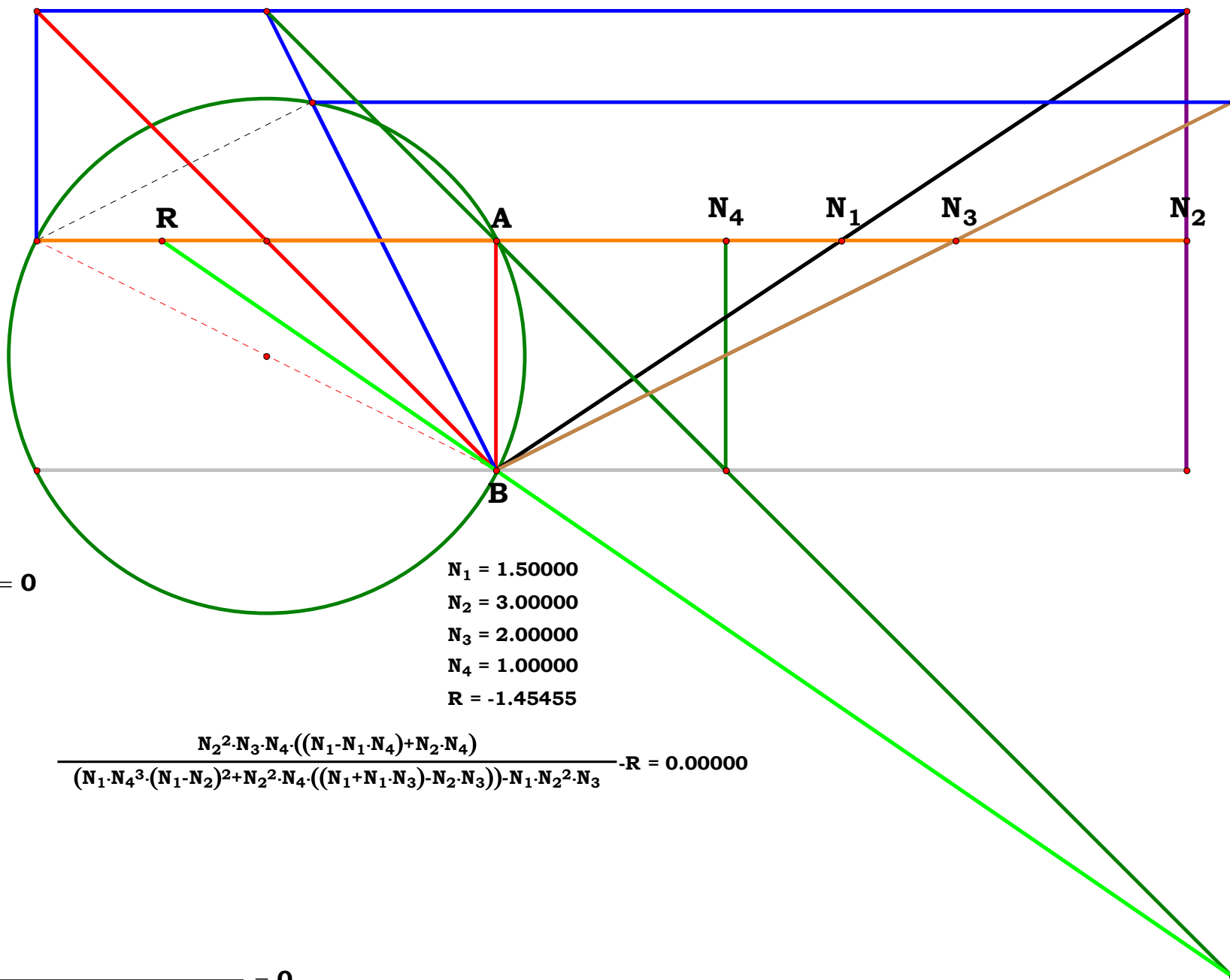
$$R - \frac{N_2^2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_1 \cdot N_4 + N_2 \cdot N_4)}{N_1 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_2^2 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 - N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 0$$

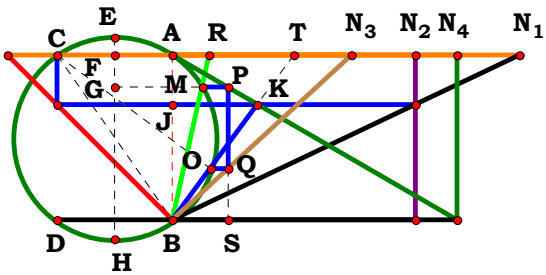
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z \cdot m^2 \cdot p \cdot (X \cdot Z \cdot m - W \cdot Z \cdot n + W \cdot n \cdot p)}{Z^3 \cdot W \cdot n \cdot o \cdot (W \cdot n - X \cdot m)^2 + Z \cdot X^2 \cdot m^2 \cdot p^2 \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + W \cdot n \cdot o) - W \cdot X^2 \cdot Y \cdot m^2 \cdot n \cdot p^3} = 0$$



$$\begin{aligned} N_1 &= 1.50000 \\ N_2 &= 3.00000 \\ N_3 &= 2.00000 \\ N_4 &= 1.00000 \\ R &= -1.45455 \end{aligned}$$

$$\frac{N_2^2 \cdot N_3 \cdot N_4 \cdot ((N_1 - N_1 \cdot N_4) + N_2 \cdot N_4)}{(N_1 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_2^2 \cdot N_4 \cdot ((N_1 + N_1 \cdot N_3) - N_2 \cdot N_3)) - N_1 \cdot N_2^2 \cdot N_3} \cdot R = 0.00000$$



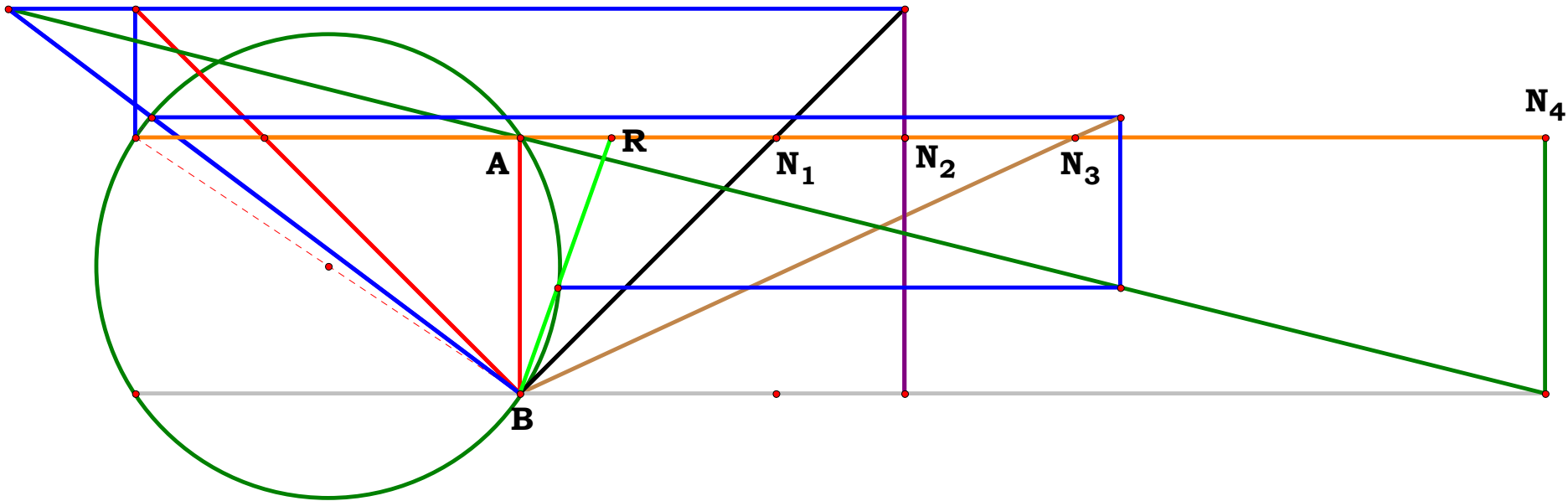
N₁ = 2.09922
N₂ = 1.46965
N₃ = 1.08694
N₄ = 1.72384
R = 0.22397

Unit. AB := 1 Given. N₁ := 2.09922 N₂ := 1.46965 N₃ := 1.08694 N₄ := 1.72384

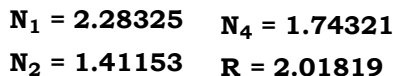
Descriptions.

$$AC := \frac{N_2}{N_1}$$
$$AJ := \frac{N_1 - N_2}{N_1}$$
$$JK := N_4 \cdot AJ$$
$$AT := \frac{JK}{AB - AJ}$$
$$EH := \sqrt{AB^2 + AC^2}$$
$$AF := \frac{AC}{2}$$
$$EF := \frac{EH - AB}{2}$$
$$BT := \sqrt{AB^2 + AT^2}$$
$$CT := AT + AC$$
$$OT := \frac{CT \cdot AT}{BT}$$
$$BO := BT - OT$$
$$OS := \frac{BO}{BT}$$
$$BS := N_3 \cdot OS$$
$$PS := \frac{N_4 - BS}{N_4}$$
$$GH := PS + EF$$
$$GM := \sqrt{GH \cdot (EH - GH)}$$
$$R := \frac{GM - AF}{PS}$$
$$R = 0.223974$$

Definitions.



N ₁ = 1.00000	AC = 1.50000	AT = -1.33333	BT = 1.66667	OS = 1.08000	GM = 0.89735
N ₂ = 1.50000	AJ = -0.50000	EH = 1.80278	CT = 0.16667	BS = 2.34071	R- $\frac{GM-AF}{PS}$ = 0.00000
N ₃ = 2.16733	JK = -2.00000	AF = 0.75000	OT = -0.13333	PS = 0.41482	
N ₄ = 4.00000	AB = 1.00000	EF = 0.40139	BO = 1.80000	GH = 0.81621	
R = 0.35522					


$$\mathbf{N}_4 := 1.74321$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{AE} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EF} := \mathbf{N}_4 \cdot \mathbf{AE}$$

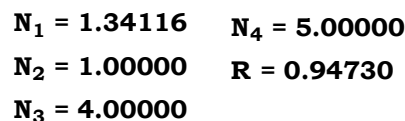
$$\mathbf{AM} := \frac{\mathbf{EF}}{\mathbf{AB} - \mathbf{AE}} \quad \mathbf{CM} := \mathbf{AM} + \mathbf{AC}$$

$$\mathbf{BM} := \sqrt{\mathbf{AB}^2 + \mathbf{AM}^2} \quad \mathbf{GM} := \frac{\mathbf{AM} \cdot \mathbf{CM}}{\mathbf{BM}}$$

$$\mathbf{BG} := \mathbf{BM} - \mathbf{GM} \quad \mathbf{JK} := \frac{\mathbf{BG}}{\mathbf{BM}}$$

$$\mathbf{BK} := \mathbf{N}_3 \cdot \mathbf{JK} \quad \mathbf{HK} := \frac{\mathbf{N}_4 - \mathbf{BK}}{\mathbf{N}_4}$$

$$\mathbf{R} := \frac{\mathbf{N}_2}{\mathbf{HK}} \quad \mathbf{R} = 2.01819$$



$$\frac{N_1 \cdot N_2 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^3 \cdot N_4}{(N_1 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_2^2 \cdot N_4 \cdot ((N_1 + N_1 \cdot N_3) - N_2 \cdot N_3)) - N_1 \cdot N_2^2 \cdot N_3} \cdot R = 0.00000$$

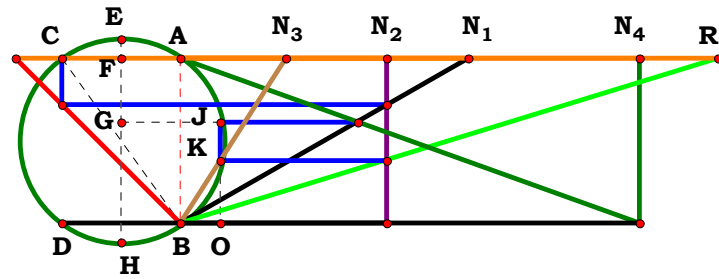
$$R - \frac{N_1 \cdot N_2 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_1 \cdot N_2^3 \cdot N_4}{N_1 \cdot N_4^3 \cdot (N_1 - N_2)^2 + N_2^2 \cdot N_4 \cdot (N_1 + N_1 \cdot N_3 - N_2 \cdot N_3) - N_1 \cdot N_2^2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{N_u^3 \cdot C \cdot (A - B)^2 + A^2 \cdot C \cdot D^2 \cdot N_u}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{W \cdot X \cdot Z \cdot o \cdot [Z^2 \cdot (W \cdot n - X \cdot m)^2 + X^2 \cdot m^2 \cdot p^2]}{Z^3 \cdot W \cdot n \cdot o \cdot (W \cdot n - X \cdot m)^2 + Z \cdot X^2 \cdot m^2 \cdot p^2 \cdot (W \cdot Y \cdot n - X \cdot Y \cdot m + W \cdot n \cdot o) - W \cdot X^2 \cdot Y \cdot m^2 \cdot n \cdot p^3} = 0$$



$$\begin{aligned} N_1 &= 1.74085 \\ N_2 &= 1.24687 \\ N_3 &= 0.64140 \\ N_4 &= 2.77959 \\ R &= 3.25003 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.74085 \quad N_2 := 1.24687 \quad N_3 := .64140 \\ N_4 := 2.77959$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad JO := \frac{N_4}{N_4 + N_1} \quad GH := JO + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad BO := GJ - AF$$

$$KO := \frac{BO}{N_3} \quad R := \frac{N_2}{KO} \quad R = 3.250024$$

Definitions.

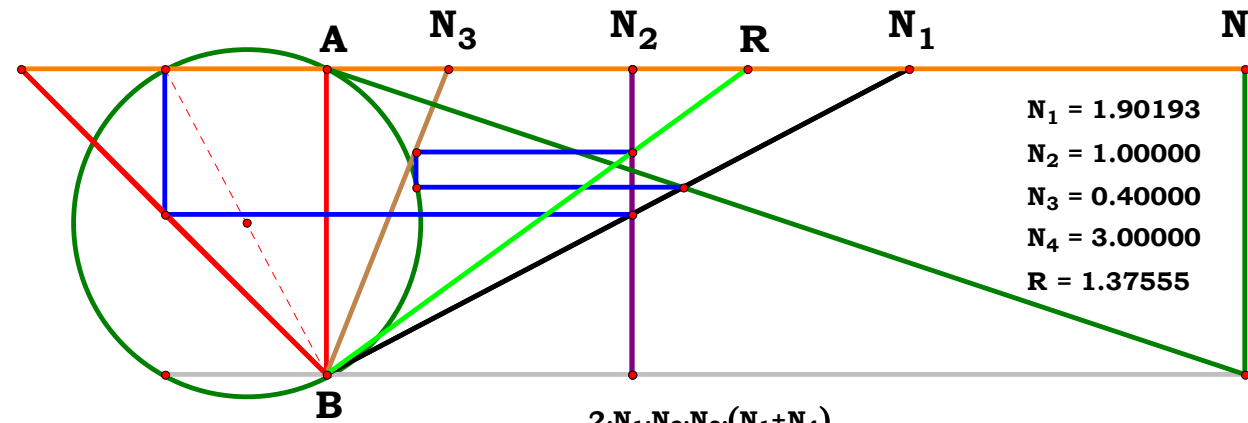
$$R - \frac{2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{4 \cdot N_1^3 \cdot N_4 + N_1^2 \cdot N_2^2 + 2 \cdot N_1 \cdot N_2^2 \cdot N_4 + N_2^2 \cdot N_4^2 - N_2 \cdot (N_1 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + D)}{\sqrt{A \cdot C \cdot \left(\sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right)}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot W \cdot X \cdot Y \cdot (W \cdot p + Z \cdot m)}{\sqrt{m \cdot o \cdot \left[\sqrt{X^2 \cdot m^3 \cdot Z^2 + 2 \cdot Z \cdot W \cdot p \cdot (2 \cdot W^2 \cdot n^2 + X^2 \cdot m^2)} + W^2 \cdot X^2 \cdot m \cdot p^2 - \sqrt{m \cdot X \cdot (W \cdot p + Z \cdot m)} \right]}} = 0$$



$$\begin{aligned} N_1 &= 1.90193 \\ N_2 &= 1.00000 \\ N_3 &= 0.40000 \\ N_4 &= 3.00000 \\ R &= 1.37555 \end{aligned}$$

$$\frac{2 \cdot N_1 \cdot N_2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{4 \cdot N_1^3 \cdot N_4 + N_1^2 \cdot N_2^2 + 2 \cdot N_1 \cdot N_2^2 \cdot N_4 + N_2^2 \cdot N_4^2 - N_2 \cdot (N_1 + N_4)}} - R = 0.00000$$

4RST7AB3R0

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AE} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2}$$

$$\mathbf{EF} := \mathbf{N}_4 \cdot \mathbf{AE} \quad \mathbf{AJ} := \frac{\mathbf{EF}}{\mathbf{AB} - \mathbf{AE}}$$

$$\mathbf{BJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AJ}^2} \quad \mathbf{HJ} := \frac{\mathbf{AJ} + \mathbf{AC}}{\mathbf{BJ}}$$

$$\mathbf{HG} := \frac{\mathbf{AJ} \cdot \mathbf{HJ}}{\mathbf{BJ}} \quad \mathbf{R} := \mathbf{N}_3 \cdot (\mathbf{AB} - \mathbf{HG})$$

R = 1.089977

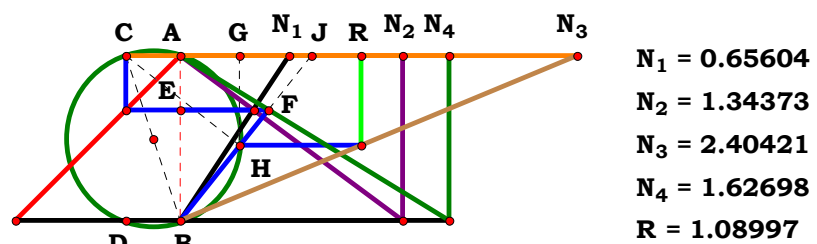
$$R - \frac{N_2 \cdot N_3 \cdot (N_1 \cdot N_2 - N_1^2 \cdot N_4 + N_2^2)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^2 + N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot D \cdot N_u \cdot (D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2)}{C \cdot (A + B) \cdot (A^2 \cdot D^2 + B^2 \cdot N_u^2)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot m \cdot p \cdot (p \cdot W \cdot X \cdot m \cdot n - Z \cdot W^2 \cdot n^2 + p \cdot X^2 \cdot m^2)}{o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)} = 0$$

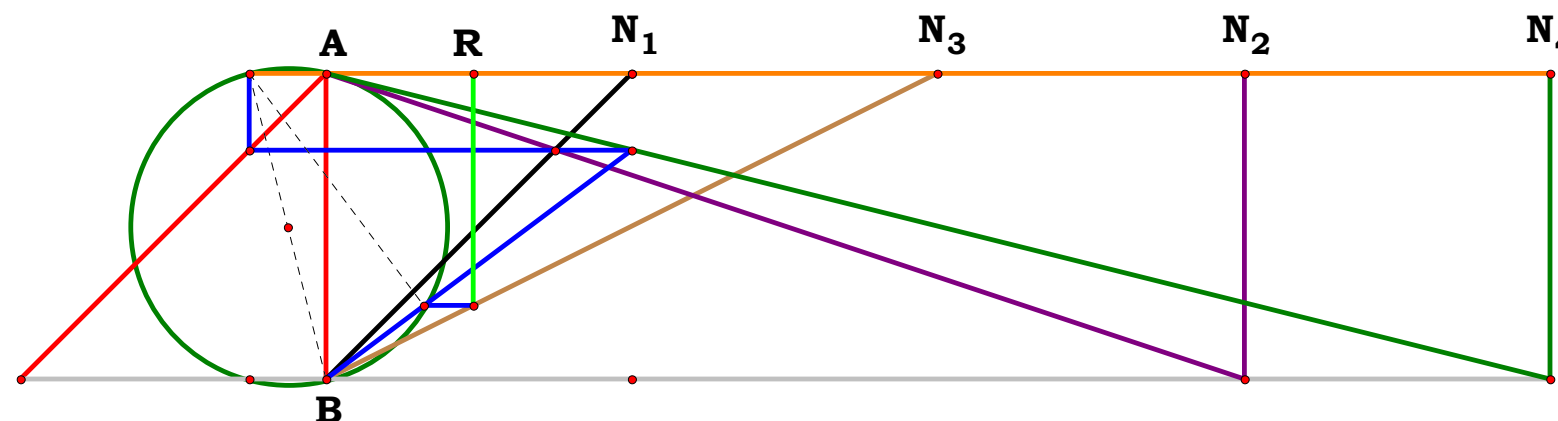


Unit. AB := 1 Given. $N_1 := .65604$ $N_2 := 1.34373$ $N_3 := 2.40421$

$$N_4 := 1.62698$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

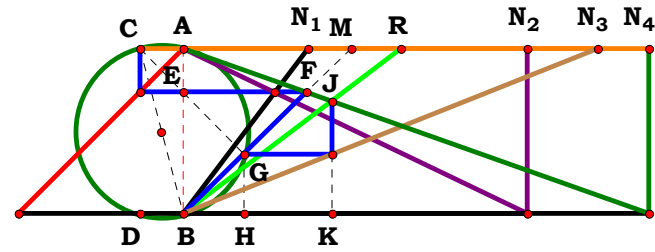
$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$



N₁ = 1.00000	$\frac{N_2 \cdot N_3 \cdot ((N_1 \cdot N_2 - N_1^2 \cdot N_4) + N_2^2)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^2 + N_2^2)} - R = 0.00000$
N₂ = 3.00000	
N₃ = 2.00000	
N₄ = 4.00000	
R = 0.48000	



4RST7AB3R1



$N_1 = 0.75290$
 $N_2 = 2.07985$
 $N_3 = 2.51075$
 $N_4 = 2.81833$
 $R = 1.31502$

Unit. $AB := 1$ Given. $N_1 := .75290$ $N_2 := 2.07985$ $N_3 := 2.51075$

$N_4 := 2.81833$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad AE := \frac{N_1}{N_1 + N_2} \quad EF := N_4 \cdot AE$$

$$AM := \frac{EF}{AB - AE} \quad BM := \sqrt{AM^2 + AB^2}$$

$$FM := \frac{AM \cdot (AM + AC)}{BM} \quad BG := BM - FM$$

$$GH := \frac{BG}{BM} \quad BK := N_3 \cdot GH$$

$$JK := \frac{N_4 - BK}{N_4} \quad R := \frac{BK}{JK} \quad R = 1.315017$$

Definitions.

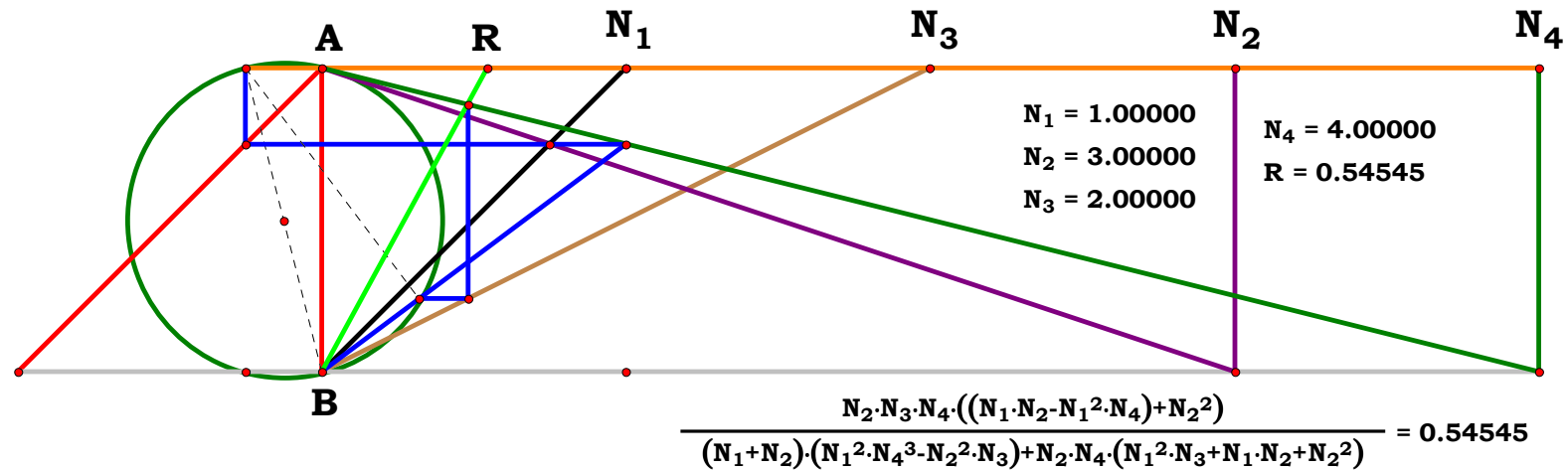
$$R - \frac{N_2 \cdot N_3 \cdot N_4 \cdot (N_1 \cdot N_2 - N_1^2 \cdot N_4 + N_2^2)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2 \cdot N_4 \cdot (N_1^2 \cdot N_3 + N_1 \cdot N_2 + N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

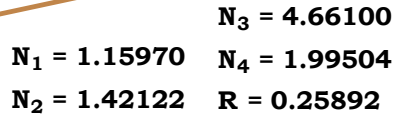
$$R - \frac{A \cdot D \cdot N_u \cdot (D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2)}{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + A \cdot D^2 \cdot [A^2 \cdot (C - D) + B^2 \cdot N_u + A \cdot B \cdot (C - D)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot Z \cdot m \cdot p \cdot (p \cdot W \cdot X \cdot m \cdot n - Z \cdot W^2 \cdot n^2 + p \cdot X^2 \cdot m^2)}{Y \cdot X \cdot m \cdot p^2 \cdot (Z \cdot W^2 \cdot n^2 - p \cdot W \cdot X \cdot m \cdot n - p \cdot X^2 \cdot m^2) + Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)} = 0$$



$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $N_4 = 4.00000$
 $R = 0.54545$



Unit. AB := 1 Given. $N_1 := 1.15970$ $N_2 := 1.42122$ $N_3 := 4.66100$ $N_4 := 1.99504$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AJ} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2}$$

$$\mathbf{JK} := \mathbf{N}_4 \cdot \mathbf{AJ} \quad \mathbf{AT} := \frac{\mathbf{JK}}{\mathbf{AB} - \mathbf{AJ}}$$

$$\mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{AF} := \frac{\mathbf{AC}}{2}$$

$$\mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2} \quad \mathbf{BT} := \sqrt{\mathbf{AB}^2 + \mathbf{AT}^2}$$

$$\mathbf{CT} := \mathbf{AT} + \mathbf{AC} \quad \mathbf{OT} := \frac{\mathbf{CT} \cdot \mathbf{AT}}{\mathbf{BT}}$$

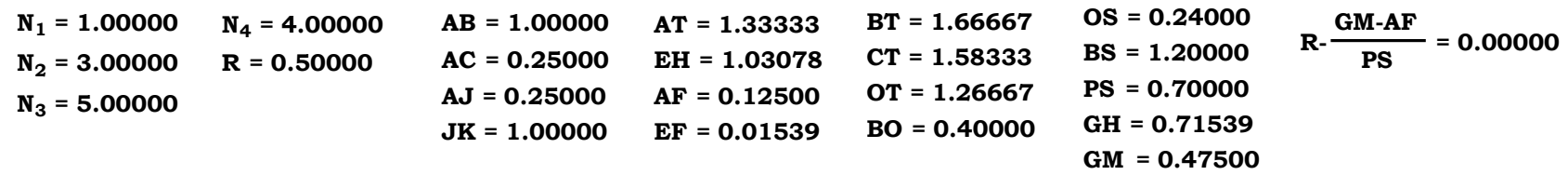
$$\mathbf{BO} := \mathbf{BT} - \mathbf{OT} \quad \mathbf{OS} := \frac{\mathbf{BO}}{\mathbf{BT}}$$

$$\mathbf{BS} := \mathbf{N}_3 \cdot \mathbf{OS} \quad \mathbf{PS} := \frac{\mathbf{N}_4 - \mathbf{BS}}{\mathbf{N}_4}$$

$$\mathbf{GH} := \mathbf{PS} + \mathbf{EF} \quad \mathbf{GM} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})}$$

$$R := \frac{GM - AF}{PS} \quad R = 0.258922$$

Definitions.



N₁ = 1.00000	N₄ = 4.00000	AB = 1.00000	AT = 1.33333	BT = 1.66667	OS = 0.24000	R-$\frac{\text{GM-AF}}{\text{PS}}$ = 0.00000
N₂ = 3.00000	R = 0.50000	AC = 0.25000	EH = 1.03078	CT = 1.58333	BS = 1.20000	
N₃ = 5.00000		AJ = 0.25000	AF = 0.12500	OT = 1.26667	PS = 0.70000	
		JK = 1.00000	EF = 0.01539	BO = 0.40000	GH = 0.71539	
					GM = 0.47500	



4RST7AB3R3

Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_1 + N_2} & CN_1 &:= AC + N_1 \\ BN_1 &:= \sqrt{AB^2 + N_1^2} & EN_1 &:= \frac{N_1 \cdot CN_1}{BN_1} \\ BE &:= BN_1 - EN_1 & GH &:= \frac{BE}{BN_1} \\ BH &:= N_4 \cdot (AB - GH) & FH &:= \frac{BH}{N_3} \\ R &:= \frac{N_2}{FH} & R &= 1.881632 \end{aligned}$$

Definitions.

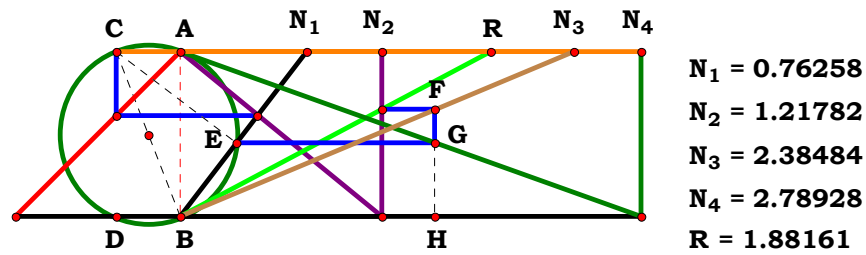
$$R - \frac{N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1^2 + 1)}{N_1^2 \cdot N_4 \cdot (N_1 + N_2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot [A \cdot B + N_u \cdot (A + B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot p \cdot (W \cdot n + X \cdot m) \cdot (W^2 + m^2)}{W^2 \cdot Z \cdot n \cdot o \cdot (W \cdot n + X \cdot m + m \cdot n)} = 0$$

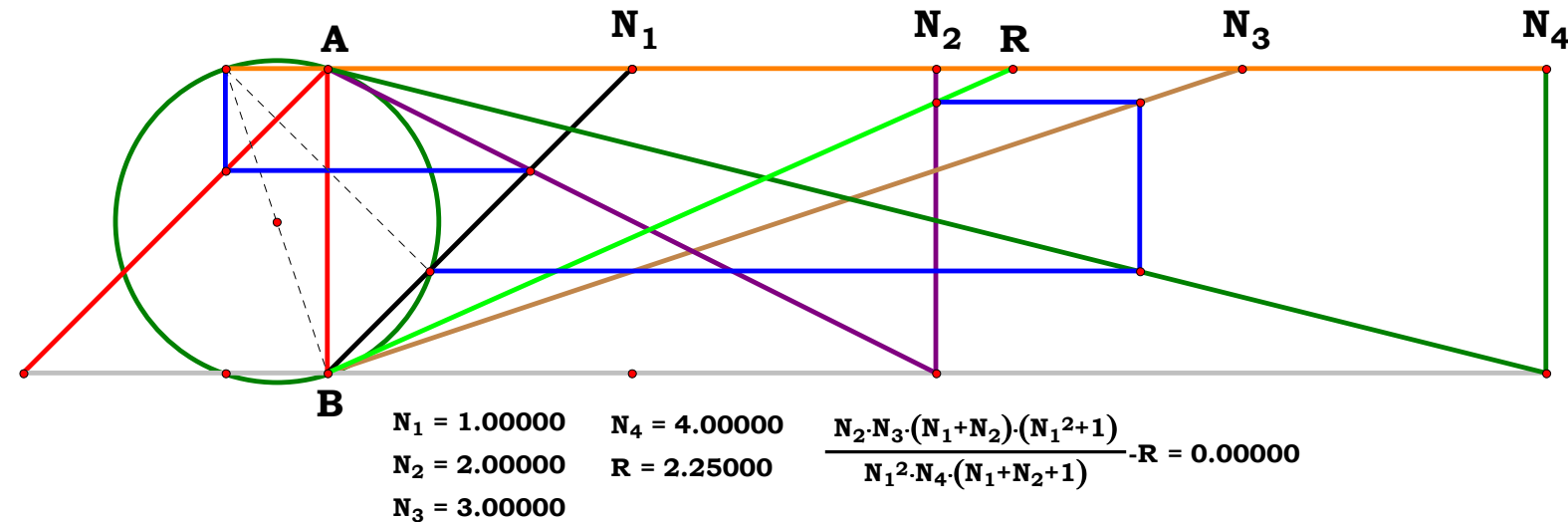


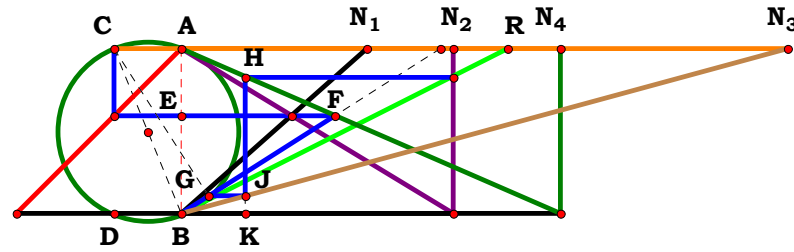
Unit. $AB := 1$ Given. $N_1 := .76258$ $N_2 := 1.21782$ $N_3 := 2.38484$

$N_4 := 2.78928$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





$$\begin{aligned} N_1 &= 1.12096 \\ N_2 &= 1.64399 \\ N_3 &= 3.67305 \\ N_4 &= 2.29530 \\ R &= 1.97967 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.12096 \quad N_2 := 1.64399 \quad N_3 := 3.67305$$

$$N_4 := 2.29530$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

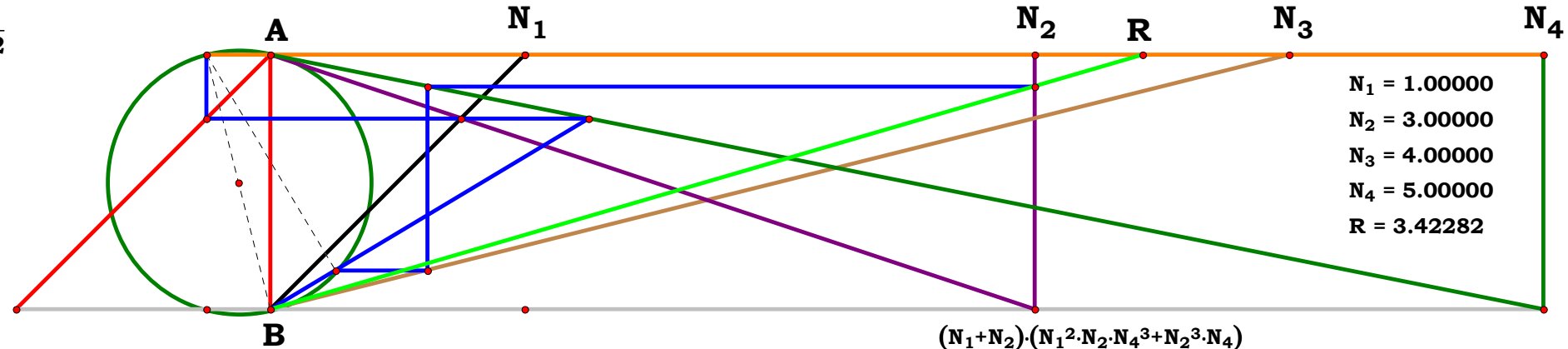
$$AC := \frac{N_1}{N_1 + N_2} \quad AE := \frac{N_1}{N_1 + N_2} \quad EF := N_4 \cdot AE$$

$$AM := \frac{EF}{AB - AE} \quad CM := AM + AC \quad BM := \sqrt{AB^2 + AM^2}$$

$$GM := \frac{AM \cdot CM}{BM} \quad BG := BM - GM$$

$$JK := \frac{BG}{BM} \quad BK := N_3 \cdot JK$$

$$HK := \frac{N_4 - BK}{N_4} \quad R := \frac{N_2}{HK} \quad R = 1.979665$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 3.00000 \\ N_3 &= 4.00000 \\ N_4 &= 5.00000 \\ R &= 3.42282 \end{aligned}$$

$$\frac{(N_1 + N_2) \cdot (N_1^2 \cdot N_2 \cdot N_4^3 + N_2^3 \cdot N_4)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2 \cdot N_4 \cdot (N_1^2 \cdot N_3 + N_1 \cdot N_2 + N_2^2)} \cdot R = 0.00000$$

Definitions.

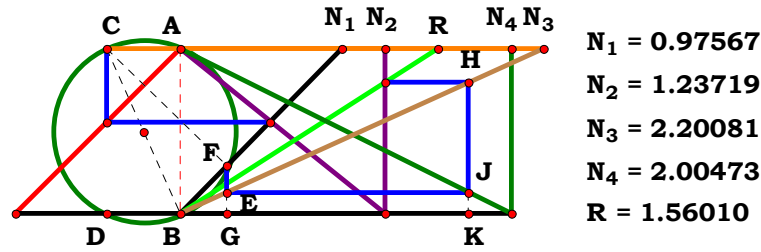
$$R - \frac{(N_1 + N_2) \cdot (N_1^2 \cdot N_2 \cdot N_4^3 + N_2^3 \cdot N_4)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2 \cdot N_4 \cdot (N_1^2 \cdot N_3 + N_1 \cdot N_2 + N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{C \cdot N_u \cdot (A + B) \cdot (A^2 \cdot D^2 + B^2 \cdot N_u^2)}{B^3 \cdot C \cdot N_u^2 \cdot (A + B) + A \cdot B \cdot D^2 \cdot [A^2 \cdot (C - D) + B^2 \cdot N_u + A \cdot B \cdot (C - D)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)}{n \cdot [Y \cdot X \cdot m \cdot p^2 \cdot (Z \cdot W^2 \cdot n^2 - p \cdot W \cdot X \cdot m \cdot n - p \cdot X^2 \cdot m^2) + Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)]} = 0$$



Unit. $AB := 1$ Given. $N_1 := .97567$ $N_2 := 1.23719$ $N_3 := 2.20081$

$N_4 := 2.00473$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

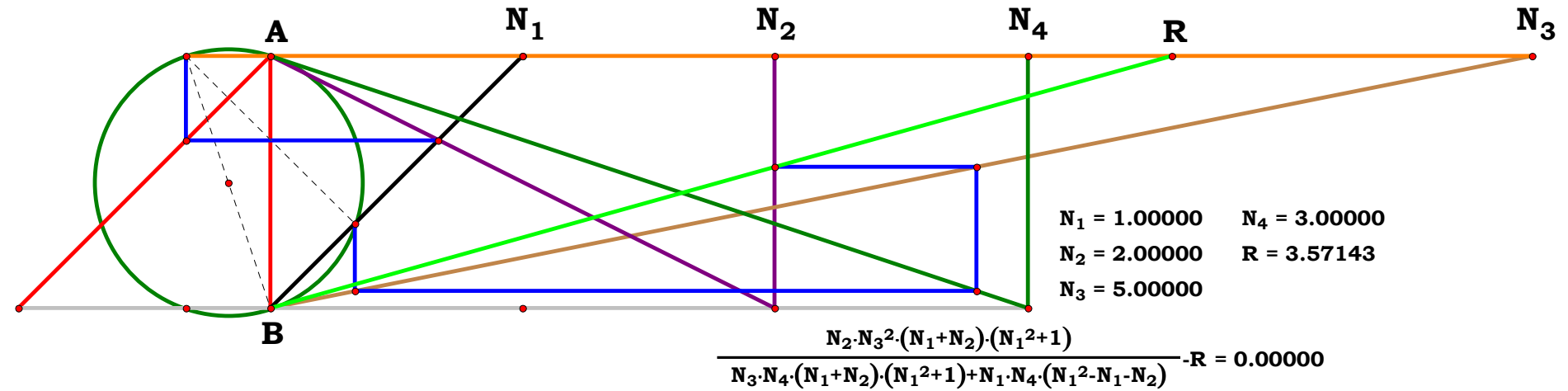
$$AC := \frac{N_1}{N_1 + N_2} \quad CN_1 := AC + N_1$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot CN_1}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$EG := \frac{BG}{N_3} \quad BK := N_4 \cdot (AB - EG)$$

$$HK := \frac{BK}{N_3} \quad R := \frac{N_2}{HK} \quad R = 1.560102$$



Definitions.

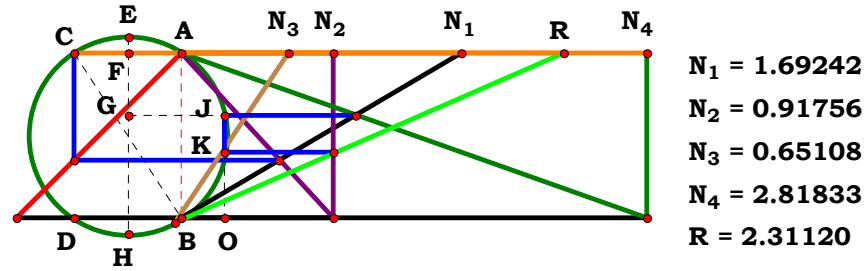
$$R - \frac{N_2 \cdot N_3^2 \cdot (N_1 + N_2) \cdot (N_1^2 + 1)}{N_3 \cdot N_4 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) + N_1 \cdot N_4 \cdot (N_1^2 - N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot [(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y^2 \cdot p \cdot (W \cdot n + X \cdot m) \cdot (W^2 + m^2)}{Z \cdot n \cdot o \cdot [Y \cdot (W^2 + m^2) \cdot (W \cdot n + X \cdot m) + W \cdot o \cdot (n \cdot W^2 - n \cdot W \cdot m - X \cdot m^2)]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.69242$ $N_2 := .91756$ $N_3 := .65108$
 $N_4 := 2.81833$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

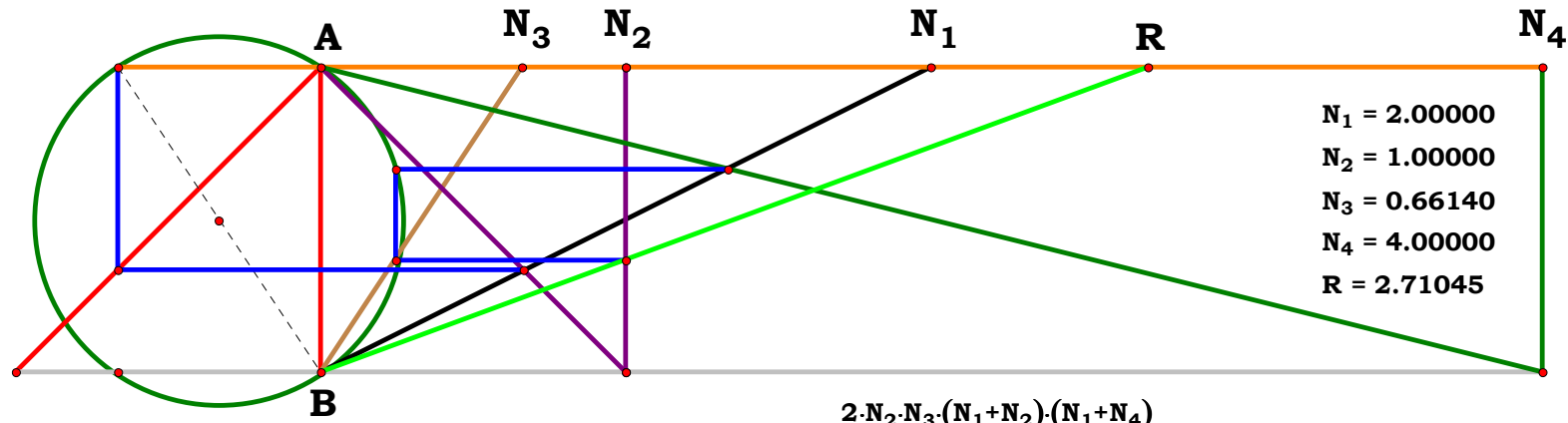
Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad JO := \frac{N_4}{N_4 + N_1} \quad GH := JO + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad BO := GJ - AF$$

$$KO := \frac{BO}{N_3} \quad R := \frac{N_2}{KO} \quad R = 2.3112$$



Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1 + N_4)}{\sqrt{N_1^4 + 6 \cdot N_1^3 \cdot N_4 + 8 \cdot N_1^2 \cdot N_2 \cdot N_4 + N_1^2 \cdot N_4^2 + 4 \cdot N_1 \cdot N_2^2 \cdot N_4 - N_1^2 - N_1 \cdot N_4}} = 0$$

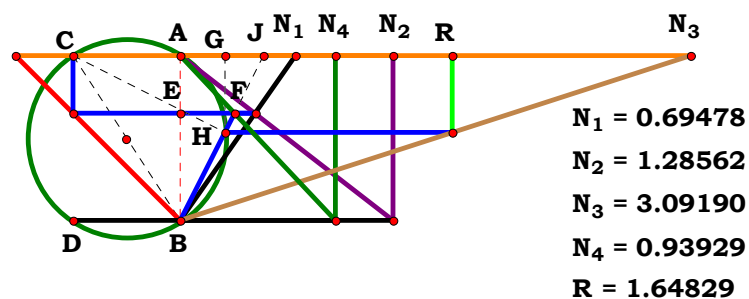
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (A + D)}{B \cdot C \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X \cdot Y \cdot (W \cdot n + X \cdot m) \cdot (W \cdot p + Z \cdot m)}{n \cdot o \cdot \left[\sqrt{W^2 \cdot m^2 \cdot n^2 \cdot Z^2 + 2 \cdot Z \cdot W \cdot m \cdot p \cdot (3 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 2 \cdot X^2 \cdot m^2)} + W^4 \cdot n^2 \cdot p^2 - W \cdot n \cdot (W \cdot p + Z \cdot m) \right]} = 0$$

$$\frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1 + N_4)}{\sqrt{N_1^4 + N_1^2 \cdot N_4^2 + 2 \cdot N_1 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) - N_1^2 - N_1 \cdot N_4}} - R = 0.00000$$



Unit. AB := 1 Given. $N_1 := .69478$ $N_2 := 1.28562$ $N_3 := 3.09190$

$$N_4 := .93929$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{AE} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EF} := \mathbf{N}_4 \cdot \mathbf{AE}$$

$$\mathbf{AJ} := \frac{\mathbf{EF}}{\mathbf{AB} - \mathbf{AE}} \quad \mathbf{BJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AJ}^2} \quad \mathbf{HJ} := \frac{\mathbf{AJ} + \mathbf{AC}}{\mathbf{BJ}}$$

$$\mathbf{HG} := \frac{\mathbf{AJ} \cdot \mathbf{HJ}}{\mathbf{BJ}} \quad \mathbf{R} := \mathbf{N}_3 \cdot (\mathbf{AB} - \mathbf{HG}) \quad \mathbf{R} = 1.648305$$

Definitions.

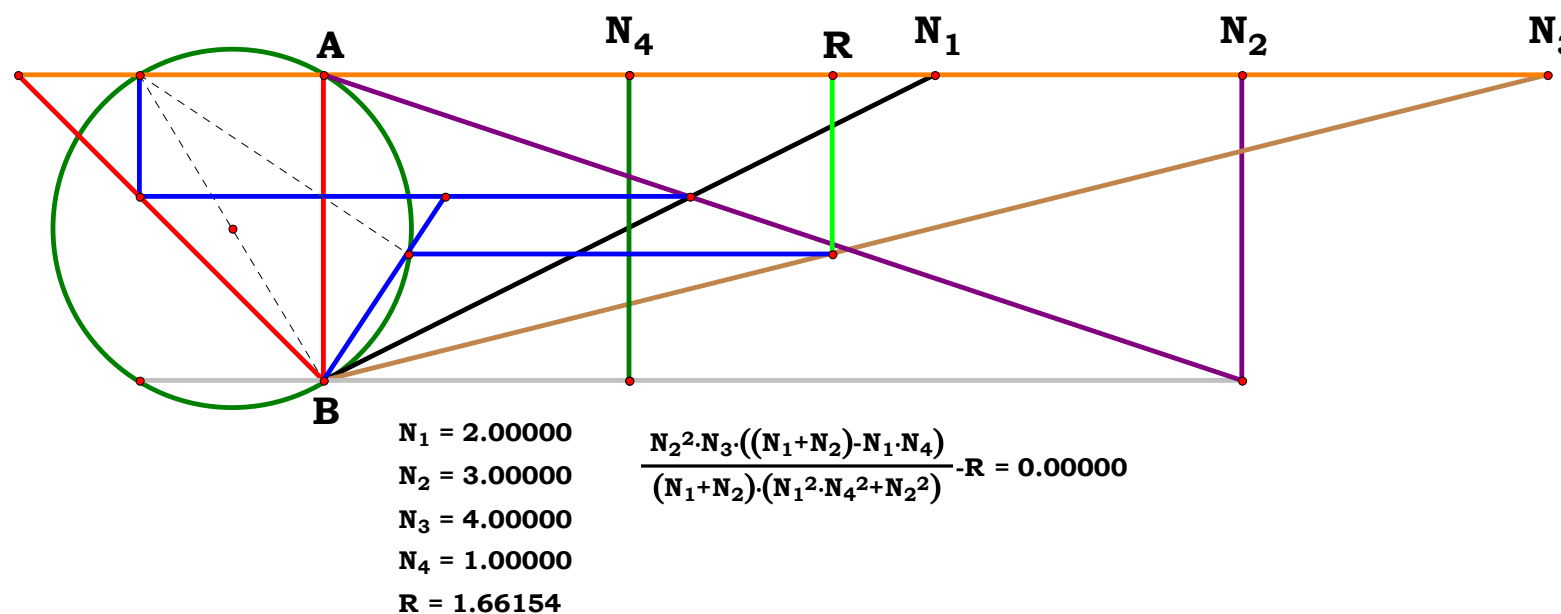
$$R - \frac{N_2^2 \cdot N_3 \cdot (N_1 + N_2 - N_1 \cdot N_4)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^2 + N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

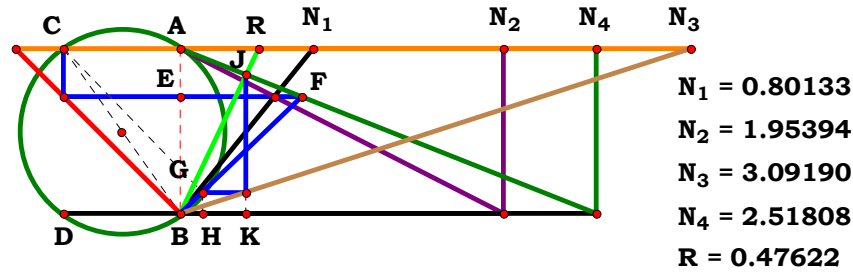
$$\mathbf{R} - \frac{\mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_u \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_u]}{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_u^2)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$R - \frac{X^2 \cdot Y \cdot m^2 \cdot p \cdot (W \cdot n \cdot p - W \cdot Z \cdot n + X \cdot m \cdot p)}{o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)} = 0$$



$$\frac{N_2^2 \cdot N_3 \cdot ((N_1 + N_2) - N_1 \cdot N_4)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^2 + N_2^2)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .80133$ $N_2 := 1.95394$ $N_3 := 3.09190$

$N_4 := 2.51808$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

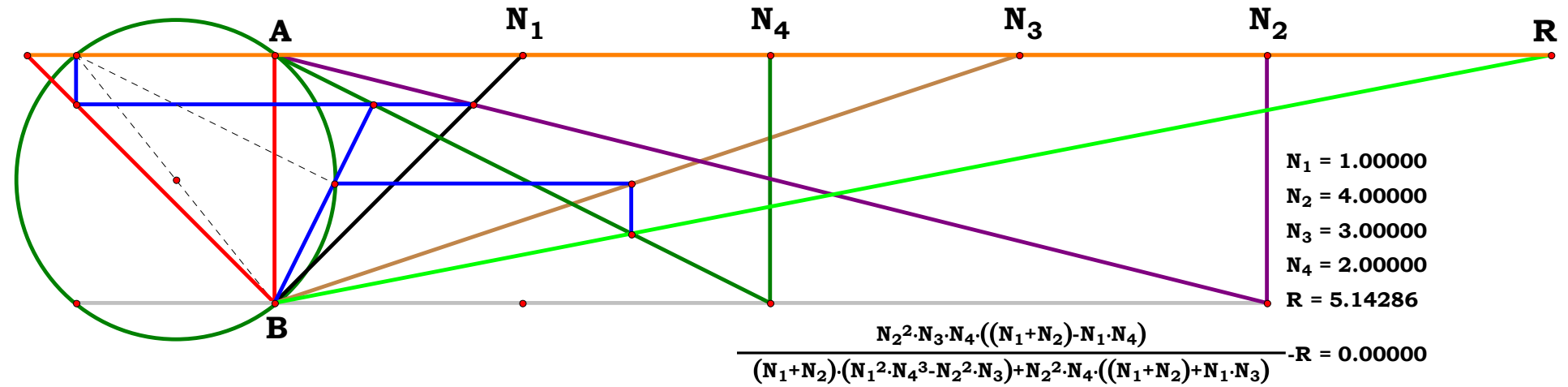
$$AC := \frac{N_2}{N_1 + N_2} \quad AE := \frac{N_1}{N_1 + N_2} \quad EF := N_4 \cdot AE$$

$$AM := \frac{EF}{AB - AE} \quad BM := \sqrt{AM^2 + AB^2}$$

$$FM := \frac{AM \cdot (AM + AC)}{BM} \quad BG := BM - FM$$

$$GH := \frac{BG}{BM} \quad BK := N_3 \cdot GH$$

$$JK := \frac{N_4 - BK}{N_4} \quad R := \frac{BK}{JK} \quad R = 0.476209$$



Definitions.

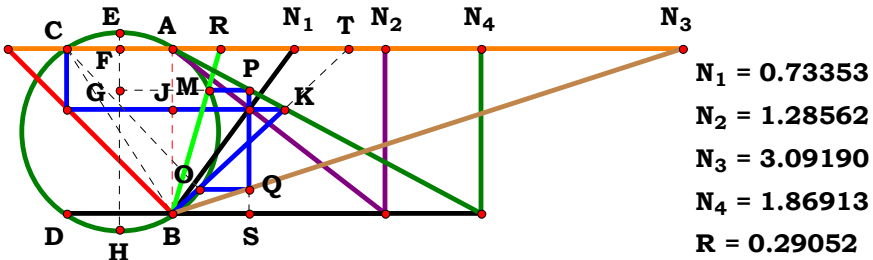
$$R - \frac{N_2^2 \cdot N_3 \cdot N_4 \cdot (N_1 + N_2 - N_1 \cdot N_4)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2^2 \cdot N_4 \cdot (N_1 + N_2 + N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A^2 \cdot D \cdot N_u \cdot [D \cdot (A + B) - B \cdot N_u]}{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + [A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z \cdot m^2 \cdot p \cdot (W \cdot n \cdot p - W \cdot Z \cdot n + X \cdot m \cdot p)}{Y \cdot X^2 \cdot m^2 \cdot p^2 \cdot (W \cdot Z \cdot n - W \cdot n \cdot p - X \cdot m \cdot p) + Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .73353$ $N_2 := 1.28562$ $N_3 := 3.09190$ $N_4 := 1.86913$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad AJ := \frac{N_1}{N_1 + N_2}$$

$$JK := N_4 \cdot AJ \quad AT := \frac{JK}{AB - AJ}$$

$$EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad BT := \sqrt{AB^2 + AT^2}$$

$$CT := AT + AC \quad OT := \frac{CT \cdot AT}{BT}$$

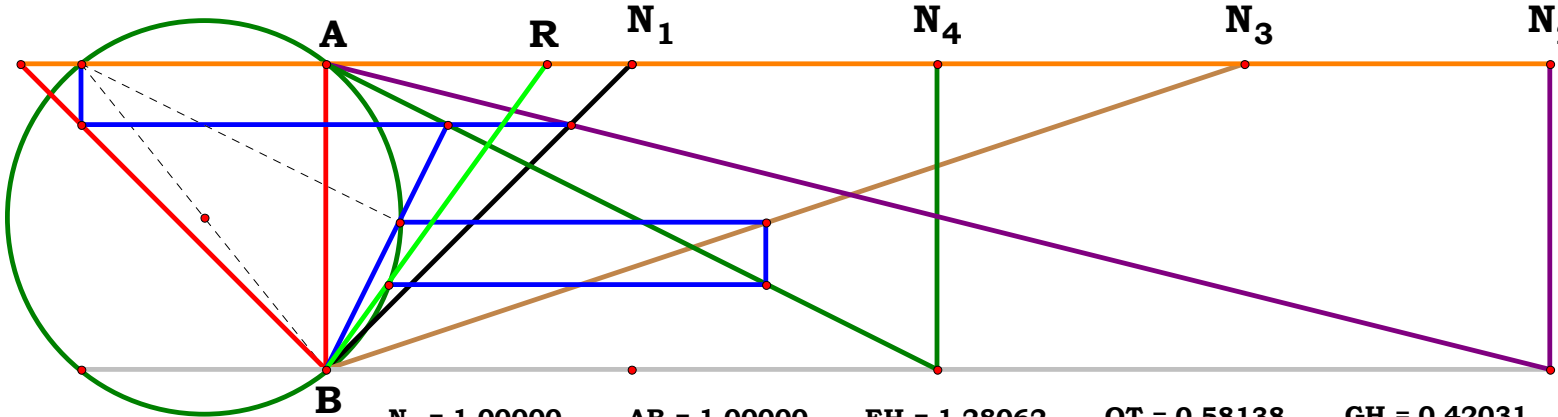
$$BO := BT - OT \quad OS := \frac{BO}{BT}$$

$$BS := N_3 \cdot OS \quad PS := \frac{N_4 - BS}{N_4}$$

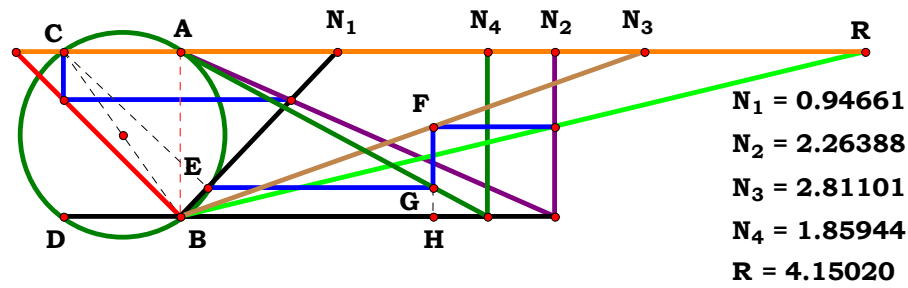
$$GH := PS + EF \quad GM := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GM - AF}{PS} \quad R = 0.290522$$

Definitions.



$N_1 = 1.00000$	$AB = 1.00000$	$EH = 1.28062$	$OT = 0.58138$	$GH = 0.42031$
$N_2 = 4.00000$	$AC = 0.80000$	$AF = 0.40000$	$BO = 0.53666$	$GM = 0.60133$
$N_3 = 3.00000$	$AJ = 0.20000$	$EF = 0.14031$	$OS = 0.48000$	$R \cdot \frac{GM - AF}{PS} = 0.00000$
$N_4 = 2.00000$	$JK = 0.40000$	$BT = 1.11803$	$BS = 1.44000$	
$R = 0.71904$	$AT = 0.50000$	$CT = 1.30000$	$PS = 0.28000$	



Unit. $AB := 1$ Given. $N_1 := .94661$ $N_2 := 2.26388$ $N_3 := 2.81101$
 $N_4 := 1.85944$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad CN_1 := AC + N_1 \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$EN_1 := \frac{N_1 \cdot CN_1}{BN_1} \quad BE := BN_1 - EN_1$$

$$GH := \frac{BE}{BN_1} \quad BH := N_4 \cdot (AB - GH)$$

$$FH := \frac{BH}{N_3} \quad R := \frac{N_2}{FH} \quad R = 4.150208$$

Definitions.

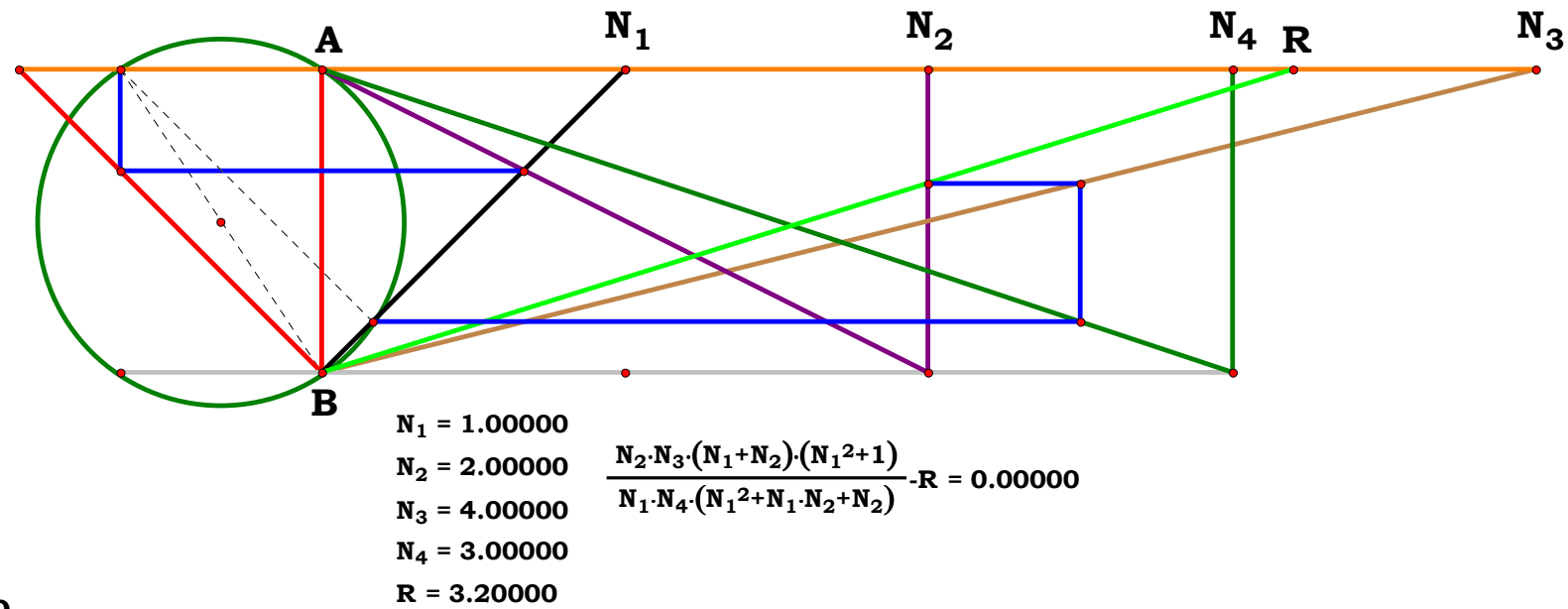
$$R - \frac{N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1^2 + 1)}{N_1 \cdot N_4 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)} = 0$$

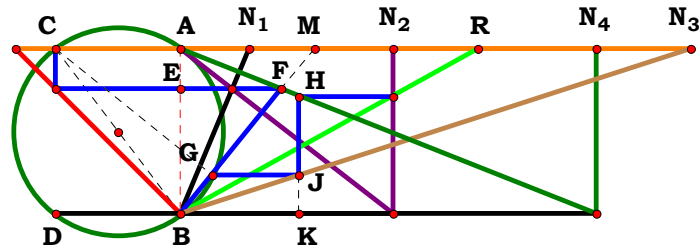
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot (A^2 + N_u \cdot A + B \cdot N_u)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y \cdot p \cdot (W \cdot n + X \cdot m) \cdot (W^2 + m^2)}{W \cdot Z \cdot n \cdot o \cdot (n \cdot W^2 + X \cdot W \cdot m + X \cdot m^2)} = 0$$





$N_1 = 0.41390$
 $N_2 = 1.28562$
 $N_3 = 3.09190$
 $N_4 = 2.51808$
 $R = 1.80200$

Unit. $AB := 1$ Given. $N_1 := .41390$ $N_2 := 1.28562$ $N_3 := 3.09190$

$N_4 := 2.51808$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad AE := \frac{N_1}{N_1 + N_2} \quad EF := N_4 \cdot AE$$

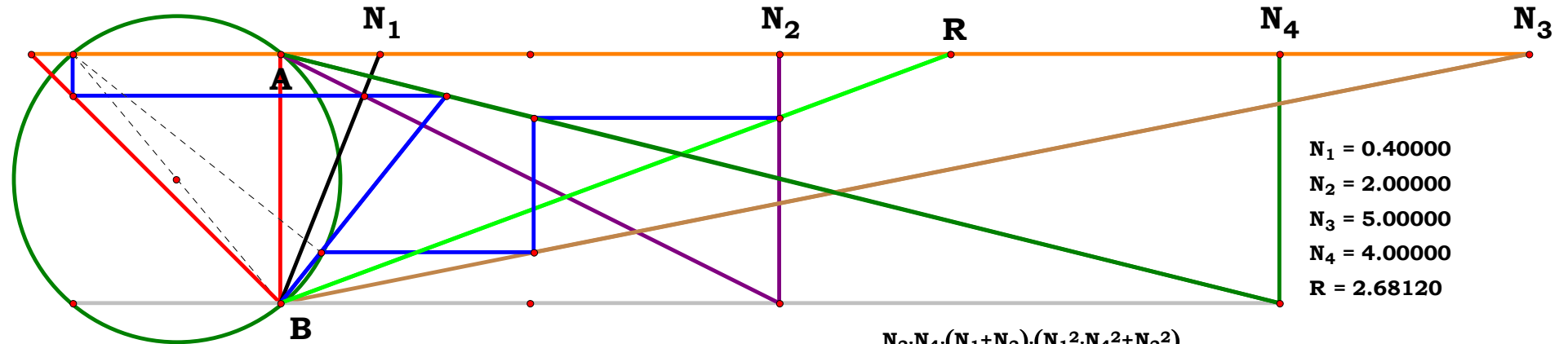
$$AM := \frac{EF}{AB - AE} \quad CM := AM + AC$$

$$BM := \sqrt{AB^2 + AM^2} \quad GM := \frac{AM \cdot CM}{BM}$$

$$BG := BM - GM \quad JK := \frac{BG}{BM}$$

$$BK := N_3 \cdot JK \quad HK := \frac{N_4 - BK}{N_4}$$

$$R := \frac{N_2}{HK} \quad R = 1.801987$$



$N_1 = 0.40000$
 $N_2 = 2.00000$
 $N_3 = 5.00000$
 $N_4 = 4.00000$
 $R = 2.68120$

$$\frac{N_2 \cdot N_4 \cdot (N_1 + N_2) \cdot (N_1^2 \cdot N_4^2 + N_2^2)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2^2 \cdot N_4 \cdot ((N_1 + N_2) + N_1 \cdot N_3)} - R = 0.00000$$

Definitions.

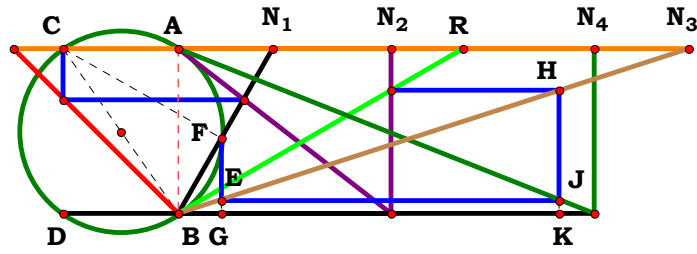
$$R - \frac{(N_1 + N_2) \cdot N_2 \cdot N_4 \cdot (N_1^2 \cdot N_4^2 + N_2^2)}{(N_1 + N_2) \cdot (N_1^2 \cdot N_4^3 - N_2^2 \cdot N_3) + N_2^2 \cdot N_4 \cdot (N_1 + N_2 + N_1 \cdot N_3)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{C \cdot N_u \cdot (A + B) \cdot (A^2 \cdot D^2 + B^2 \cdot N_u^2)}{N_u^2 \cdot B^3 \cdot C \cdot (A + B) + A^2 \cdot B^2 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (C - D) \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Z \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)}{Y \cdot X^2 \cdot m^2 \cdot n \cdot p^2 \cdot (W \cdot Z \cdot n - W \cdot n \cdot p - X \cdot m \cdot p) + Z \cdot n \cdot o \cdot (W \cdot n + X \cdot m) \cdot (W^2 \cdot Z^2 \cdot n^2 + X^2 \cdot m^2 \cdot p^2)} = 0$$



$N_1 = 0.56887$
 $N_2 = 1.28562$
 $N_3 = 3.09190$
 $N_4 = 2.51808$
 $R = 1.72370$

Unit. $AB := 1$ Given. $N_1 := .56887$ $N_2 := 1.28562$ $N_3 := 3.09190$

$N_4 := 2.51808$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

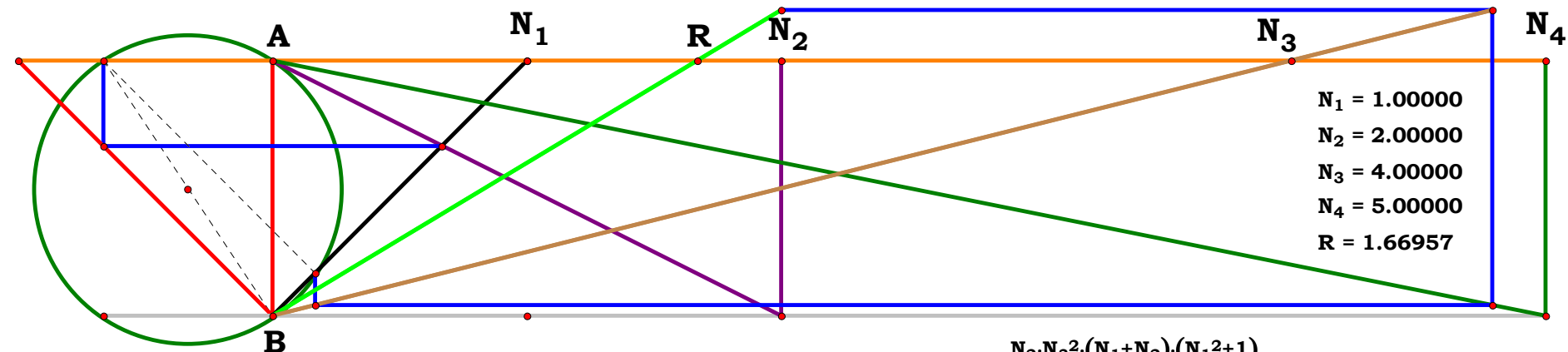
$$AC := \frac{N_2}{N_1 + N_2} \quad CN_1 := AC + N_1$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot CN_1}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$EG := \frac{BG}{N_3} \quad BK := N_4 \cdot (AB - EG)$$

$$HK := \frac{BK}{N_3} \quad R := \frac{N_2}{HK} \quad R = 1.723697$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 1.66957$

$$\frac{N_2 \cdot N_3^2 \cdot (N_1 + N_2) \cdot (N_1^2 + 1)}{N_3 \cdot N_4 \cdot (N_1 + N_2) \cdot (N_1^2 + 1) + N_1 \cdot N_4 \cdot (N_1 \cdot N_2 - N_2 - N_1)} - R = 0.00000$$

Definitions.

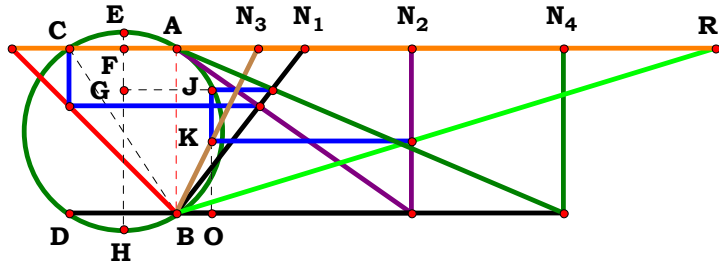
$$R - \frac{N_2 \cdot N_3^2 \cdot (N_1 + N_2) \cdot (N_1^2 + 1)}{N_3 \cdot N_4 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) + N_1 \cdot N_4 \cdot (N_1 \cdot N_2 - N_2 - N_1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot [(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X \cdot Y^2 \cdot p \cdot (W \cdot n + X \cdot m) \cdot (W^2 + m^2)}{Z \cdot n \cdot o \cdot [Y \cdot (W^2 + m^2) \cdot (W \cdot n + X \cdot m) + W \cdot m \cdot o \cdot (W \cdot X - W \cdot n - X \cdot m)]} = 0$$



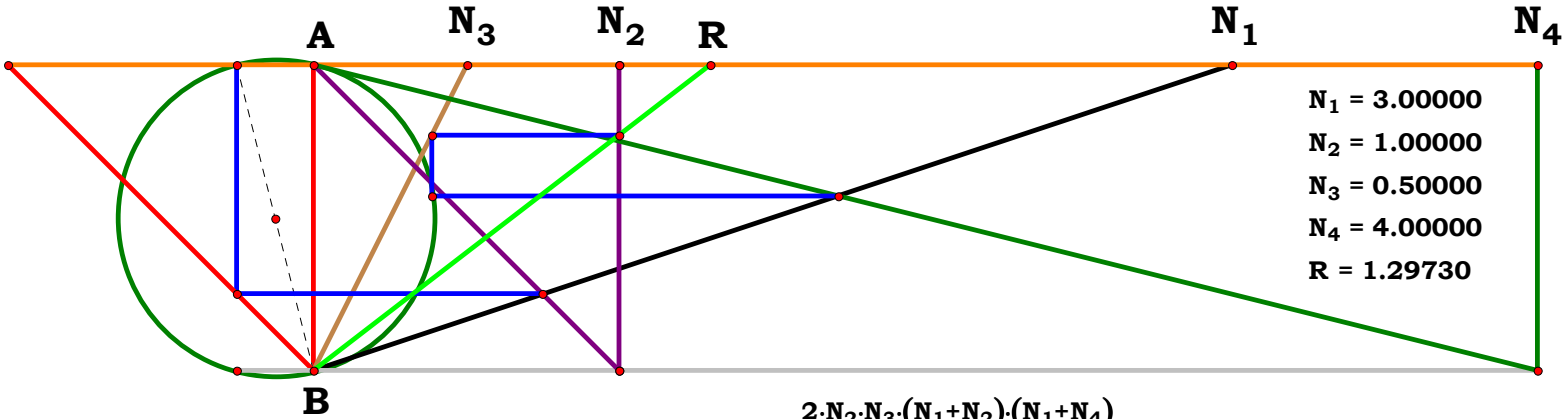
$N_1 = 0.77227$
 $N_2 = 1.42122$
 $N_3 = 0.49611$
 $N_4 = 2.34373$
 $R = 3.26696$

Unit. $AB := 1$ Given. $N_1 := .77227$ $N_2 := 1.42122$ $N_3 := .49611$

$N_4 := 2.34373$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 0.50000$
 $N_4 = 4.00000$
 $R = 1.29730$

$$\frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1 + N_4)}{\sqrt{N_2^2 \cdot N_4^2 + 2 \cdot N_1 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) + N_1^2 \cdot N_2^2 - N_2 \cdot (N_1 + N_4)}} \cdot R = 0.00000$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$JO := \frac{N_4}{N_4 + N_1} \quad GH := JO + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)}$$

$$BO := GJ - AF \quad KO := \frac{BO}{N_3}$$

$$R := \frac{N_2}{KO} \quad R = 3.266965$$

Definitions.

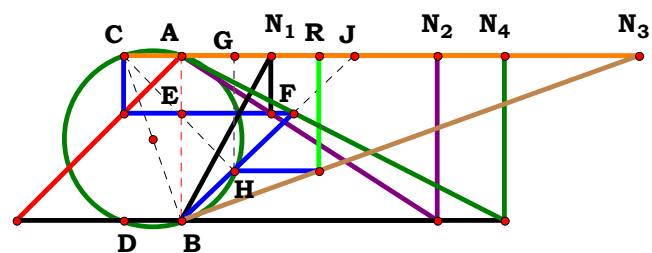
$$R - \frac{2 \cdot N_2 \cdot N_3 \cdot (N_1 + N_2) \cdot (N_1 + N_4)}{\sqrt{N_2^2 \cdot N_4^2 + 2 \cdot N_1 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) + N_1^2 \cdot N_2^2 - N_2 \cdot (N_1 + N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u^4 \cdot (A + B) \cdot (A + D)}{\sqrt{A \cdot B \cdot C \cdot N_u^2 \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right]}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X \cdot Y \cdot (W \cdot n + X \cdot m) \cdot (W \cdot p + Z \cdot m)}{\sqrt{m \cdot n \cdot o \cdot \left[\sqrt{4 \cdot Z \cdot n^2 \cdot p \cdot W^3 + W^2 \cdot X \cdot m \cdot p \cdot (X \cdot p + 8 \cdot Z \cdot n) + X^2 \cdot Z \cdot m^2 \cdot (6 \cdot W \cdot p + Z \cdot m)} - \sqrt{m \cdot X \cdot (W \cdot p + Z \cdot m)} \right]}} = 0$$



N₁ = 0.53981
N₂ = 1.54713
N₃ = 2.77227
N₄ = 1.95630
R = 0.83763

$$N_4 := 1.95630$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{AE} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EF} := \mathbf{N}_4 \cdot \mathbf{AE}$$

$$\mathbf{AJ} := \frac{\mathbf{EF}}{\mathbf{AB} - \mathbf{AE}} \quad \mathbf{BJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AJ}^2}$$

$$\mathbf{HJ} := \frac{\mathbf{AJ} + \mathbf{AC}}{\mathbf{BJ}} \qquad \mathbf{HG} := \frac{\mathbf{AJ} \cdot \mathbf{HJ}}{\mathbf{BJ}}$$

$$\mathbf{R} := \mathbf{N}_3 \cdot (\mathbf{AB} - \mathbf{HG}) \quad \mathbf{R} = 0.837627$$

Definitions.

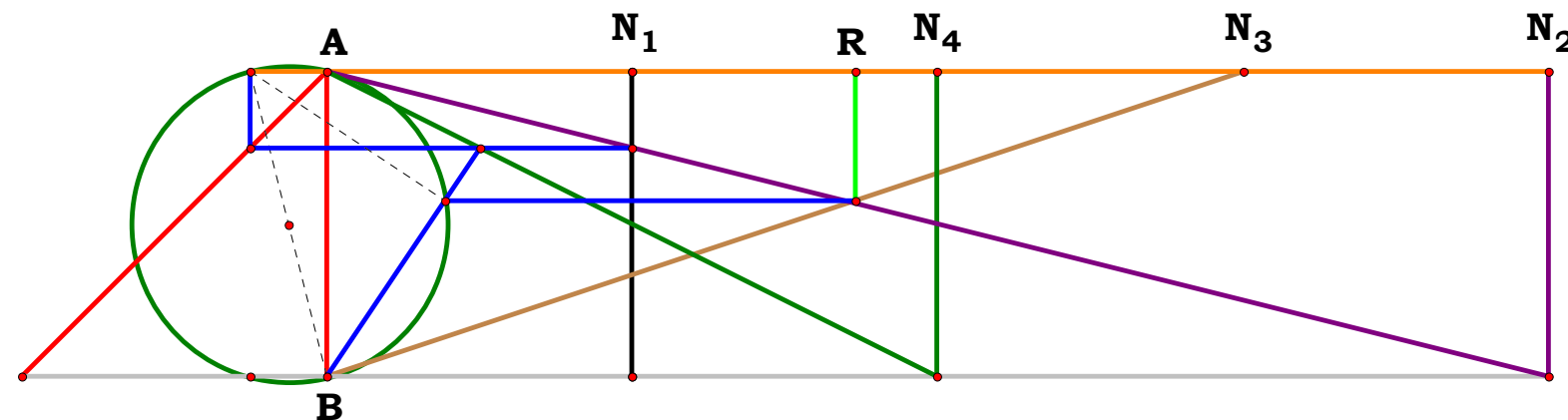
$$R - \frac{N_3 \cdot (N_1 - N_2) \cdot (N_1^2 \cdot N_4 + N_1 \cdot N_2 - N_2^2)}{N_2 \cdot (N_1^2 \cdot N_4^2 + N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2)}{\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)} = 0$$

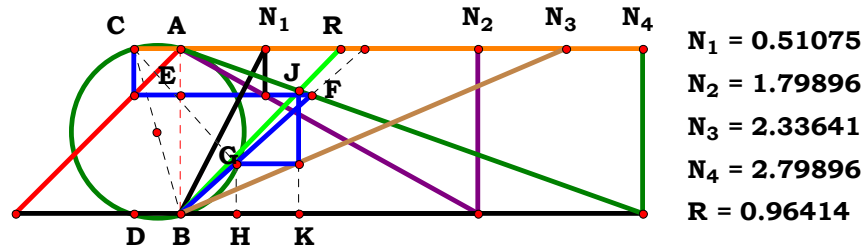
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{Y \cdot p \cdot (W \cdot n - X \cdot m) \cdot (Z \cdot W^2 \cdot n^2 + p \cdot W \cdot X \cdot m \cdot n - p \cdot X^2 \cdot m^2)}{X \cdot m \cdot o \cdot [W^2 \cdot n^2 \cdot (Z^2 + p^2) + X \cdot m \cdot p^2 \cdot (X \cdot m - 2 \cdot W \cdot n)]} = 0$$



N₁ = 1.00000
N₂ = 4.00000
N₃ = 3.00000
N₄ = 2.00000
R = 1.73077

$$\frac{N_3 \cdot (N_1 - N_2) \cdot ((N_1^2 \cdot N_4 + N_1 \cdot N_2) - N_2^2)}{N_2 \cdot (((N_1^2 \cdot N_4^2 + N_1^2) - 2 \cdot N_1 \cdot N_2) + N_2^2)} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .51075$ $N_2 := 1.79896$ $N_3 := 2.33641$

$N_4 := 2.79896$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

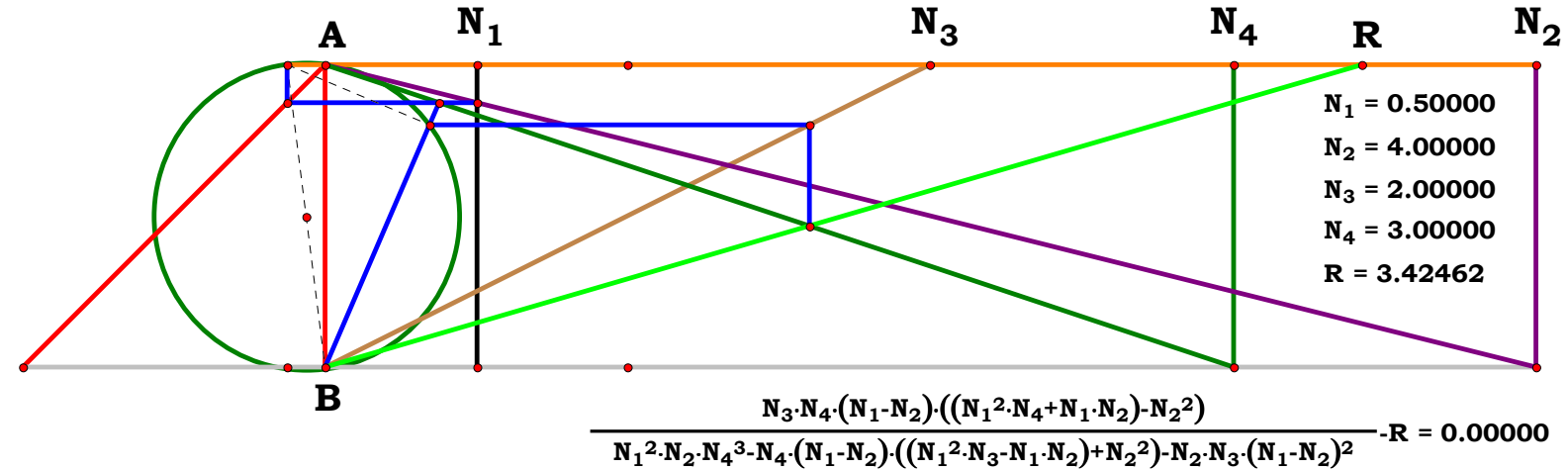
$$AC := \frac{N_1}{N_2} \quad AE := \frac{N_1}{N_2} \quad EF := N_4 \cdot AE$$

$$AM := \frac{EF}{AB - AE} \quad BM := \sqrt{AM^2 + AB^2}$$

$$FM := \frac{AM \cdot (AM + AC)}{BM} \quad BG := BM - FM$$

$$GH := \frac{BG}{BM} \quad BK := N_3 \cdot GH$$

$$JK := \frac{N_4 - BK}{N_4} \quad R := \frac{BK}{JK} \quad R = 0.96416$$



Definitions.

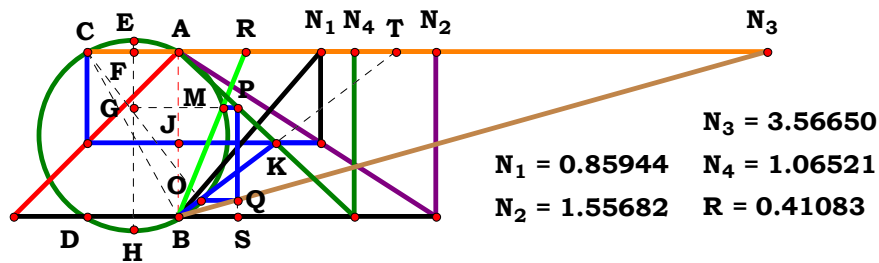
$$R - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2) \cdot (N_1^2 \cdot N_4 + N_1 \cdot N_2 - N_2^2)}{N_1^2 \cdot N_2 \cdot N_4^3 - N_4 \cdot (N_1 - N_2) \cdot (N_1^2 \cdot N_3 - N_1 \cdot N_2 + N_2^2) - N_2 \cdot N_3 \cdot (N_1 - N_2)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot N_u \cdot (A - B) \cdot (D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2)}{A \cdot B^2 \cdot C \cdot N_u^2 + N_u \cdot B^2 \cdot D^2 \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

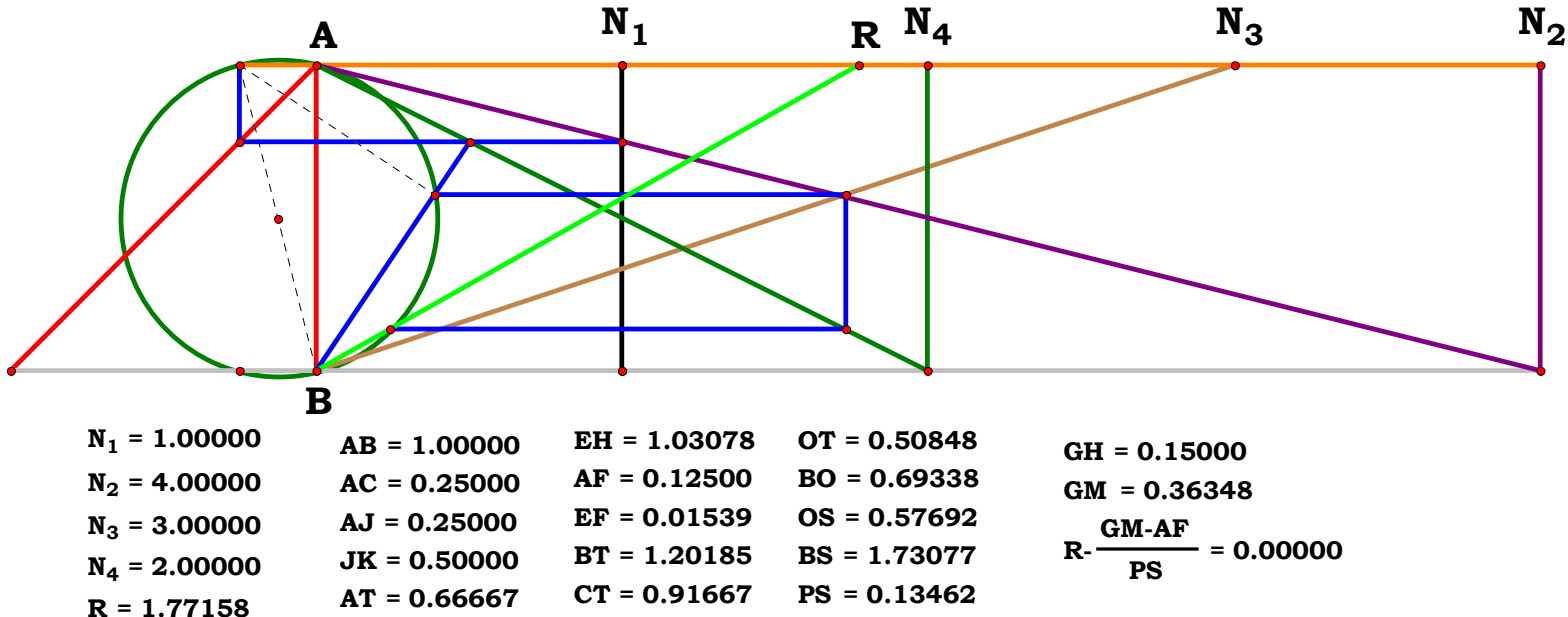
$$R - \frac{Y \cdot Z \cdot p \cdot (W \cdot n - X \cdot m) \cdot (Z \cdot W^2 \cdot n^2 + p \cdot W \cdot X \cdot m \cdot n - p \cdot X^2 \cdot m^2)}{W^2 \cdot X \cdot m \cdot n^2 \cdot o \cdot Z^3 - Z \cdot p^2 \cdot (W \cdot n - X \cdot m) \cdot (Y \cdot W^2 \cdot n^2 - o \cdot W \cdot X \cdot m \cdot n + o \cdot X^2 \cdot m^2) - X \cdot Y \cdot m \cdot p^3 \cdot (W \cdot n - X \cdot m)^2} = 0$$



Unit. $AB := 1$ Given. $N_1 := .85944$ $N_2 := 1.55682$ $N_3 := 3.56650$ $N_4 := 1.06521$

Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_2} & AJ &:= \frac{N_1}{N_2} \\ JK &:= N_4 \cdot AJ & AT &:= \frac{JK}{AB - AJ} \\ EH &:= \sqrt{AB^2 + AC^2} & AF &:= \frac{AC}{2} \\ EF &:= \frac{EH - AB}{2} & BT &:= \sqrt{AB^2 + AT^2} \\ CT &:= AT + AC & OT &:= \frac{CT \cdot AT}{BT} \\ BO &:= BT - OT & OS &:= \frac{BO}{BT} \\ BS &:= N_3 \cdot OS & PS &:= \frac{N_4 - BS}{N_4} \\ GH &:= PS + EF & GM &:= \sqrt{GH \cdot (EH - GH)} \\ R &:= \frac{GM - AF}{PS} & R &= 0.410843 \end{aligned}$$



Definitions.



4RST7AB5R3

Descriptions.

$$AC := \frac{N_1}{N_2} \quad CN_1 := AC + N_1$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad EN_1 := \frac{N_1 \cdot CN_1}{BN_1}$$

$$BE := BN_1 - EN_1 \quad GH := \frac{BE}{BN_1}$$

$$BH := N_4 \cdot (AB - GH) \quad FH := \frac{BH}{N_3}$$

$$R := \frac{N_2}{FH} \quad R = 1.950874$$

Definitions.

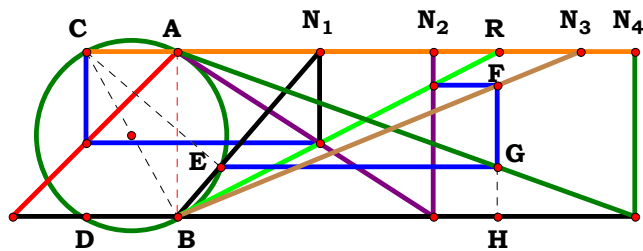
$$R - \frac{N_2^2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_4 \cdot (N_2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot (B + N_u)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X^2 \cdot Y \cdot p \cdot (W^2 + m^2)}{W^2 \cdot Z \cdot n \cdot o \cdot (X + n)} = 0$$

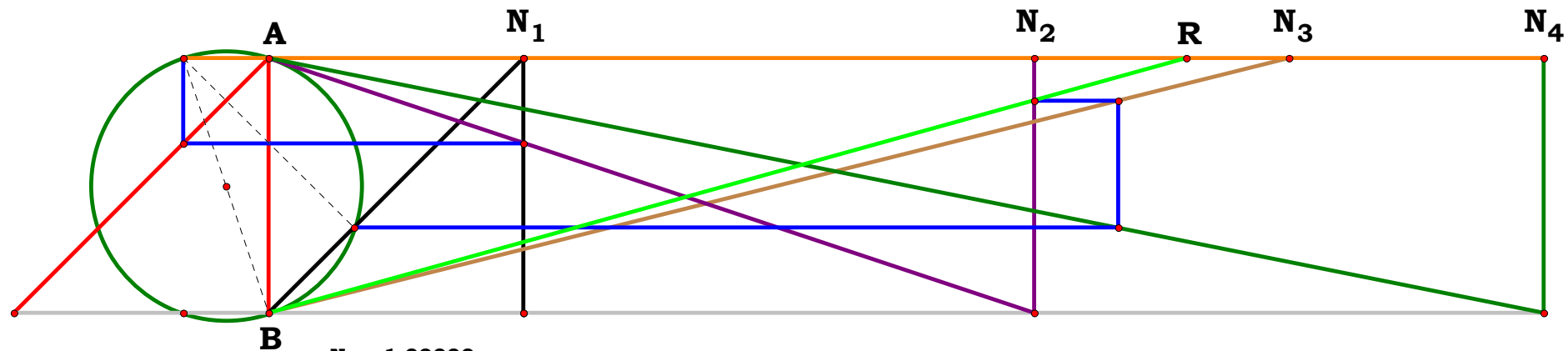


$N_1 = 0.85944$
 $N_2 = 1.54713$
 $N_3 = 2.44295$
 $N_4 = 2.76991$
 $R = 1.95088$

Unit. $AB := 1$ Given. $N_1 := .85944$ $N_2 := 1.54713$ $N_3 := 2.44295$
 $N_4 := 2.76991$

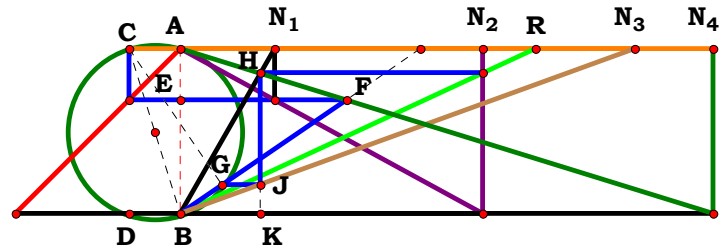
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$N_1 = 1.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $N_4 = 5.00000$
 $R = 3.60000$

$$\frac{N_2^2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1^2 \cdot N_4 \cdot (N_2 + 1)} - R = 0.00000$$



$N_1 = 0.56887$
 $N_2 = 1.82802$
 $N_3 = 2.75290$
 $N_4 = 3.22514$
 $R = 2.14906$

Unit. $AB := 1$ Given. $N_1 := .56887$ $N_2 := 1.82802$ $N_3 := 2.75290$

$N_4 := 3.22514$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad AE := \frac{N_1}{N_2} \quad EF := N_4 \cdot AE$$

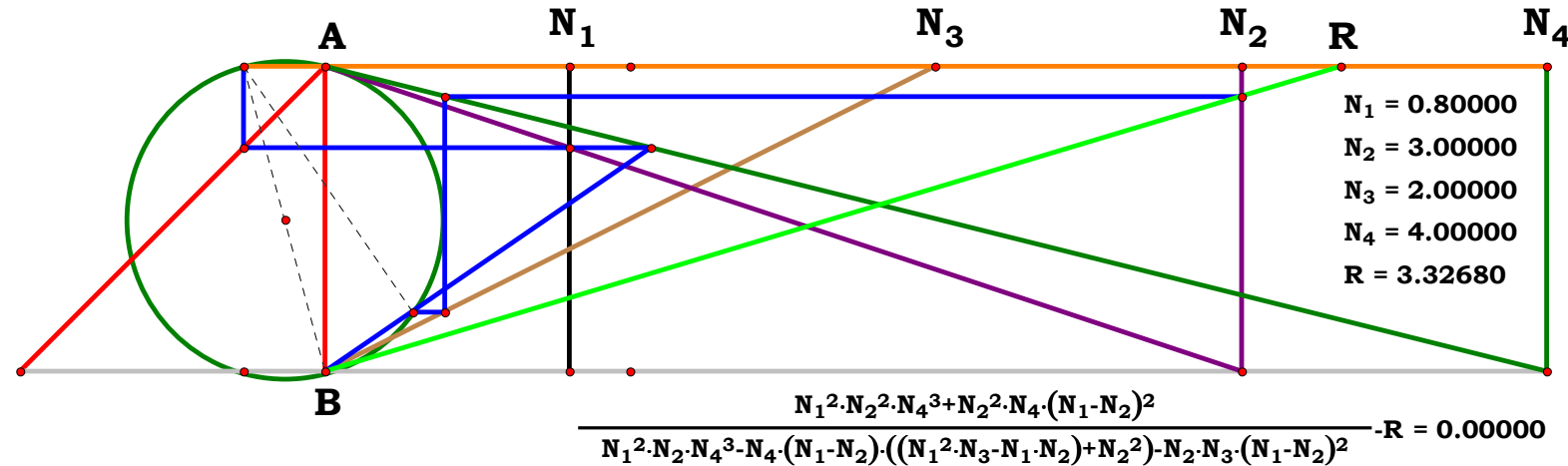
$$AM := \frac{EF}{AB - AE} \quad CM := AM + AC$$

$$BM := \sqrt{AB^2 + AM^2} \quad GM := \frac{AM \cdot CM}{BM}$$

$$BG := BM - GM \quad JK := \frac{BG}{BM}$$

$$BK := N_3 \cdot JK \quad HK := \frac{N_4 - BK}{N_4}$$

$$R := \frac{N_2}{HK} \quad R = 2.149049$$



Definitions.

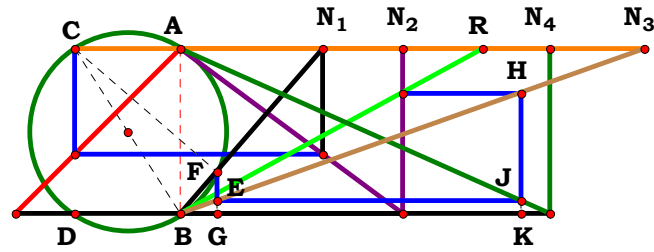
$$R - \frac{N_1^2 \cdot N_2^2 \cdot N_4^3 + N_2^2 \cdot N_4 \cdot (N_1 - N_2)^2}{N_1^2 \cdot N_2 \cdot N_4^3 - N_4 \cdot (N_1 - N_2) \cdot (N_1^2 \cdot N_3 - N_1 \cdot N_2 + N_2^2) - N_2 \cdot N_3 \cdot (N_1 - N_2)^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot C \cdot N_u \cdot (A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2)}{A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) + A \cdot B^3 \cdot (D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2) - B^4 \cdot D^2 \cdot N_u} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{W^2 \cdot X^2 \cdot m \cdot n^2 \cdot o \cdot Z^3 + Z \cdot X^2 \cdot m \cdot o \cdot p^2 \cdot (W \cdot n - X \cdot m)^2}{W^2 \cdot X \cdot m \cdot n^3 \cdot o \cdot Z^3 - Z \cdot n \cdot p^2 \cdot (W \cdot n - X \cdot m) \cdot (Y \cdot W^2 \cdot n^2 - o \cdot W \cdot X \cdot m \cdot n + o \cdot X^2 \cdot m^2) - X \cdot Y \cdot m \cdot n \cdot p^3 \cdot (W \cdot n - X \cdot m)^2} = 0$$



N₁ = 0.85944
N₂ = 1.34373
N₃ = 2.81101
N₄ = 2.23719
R = 1.83359

Unit. AB := 1 Given. $N_1 := .85944$ $N_2 := 1.34373$ $N_3 := 2.81101$
 $N_4 := 2.23719$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{CN}_1 := \mathbf{AC} + \mathbf{N}_1$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{FN}_1 := \frac{\mathbf{N}_1 \cdot \mathbf{CN}_1}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \mathbf{BN}_1 - \mathbf{FN}_1 \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1}$$

$$\mathbf{EG} := \frac{\mathbf{BG}}{\mathbf{N}_3} \quad \mathbf{BK} := \mathbf{N}_4 \cdot (\mathbf{AB} - \mathbf{EG})$$

$$\text{HK} := \frac{\text{BK}}{\text{N}_3} \quad \text{R} := \frac{\text{N}_2}{\text{HK}} \quad \text{R} = 1.833581$$

Definitions.

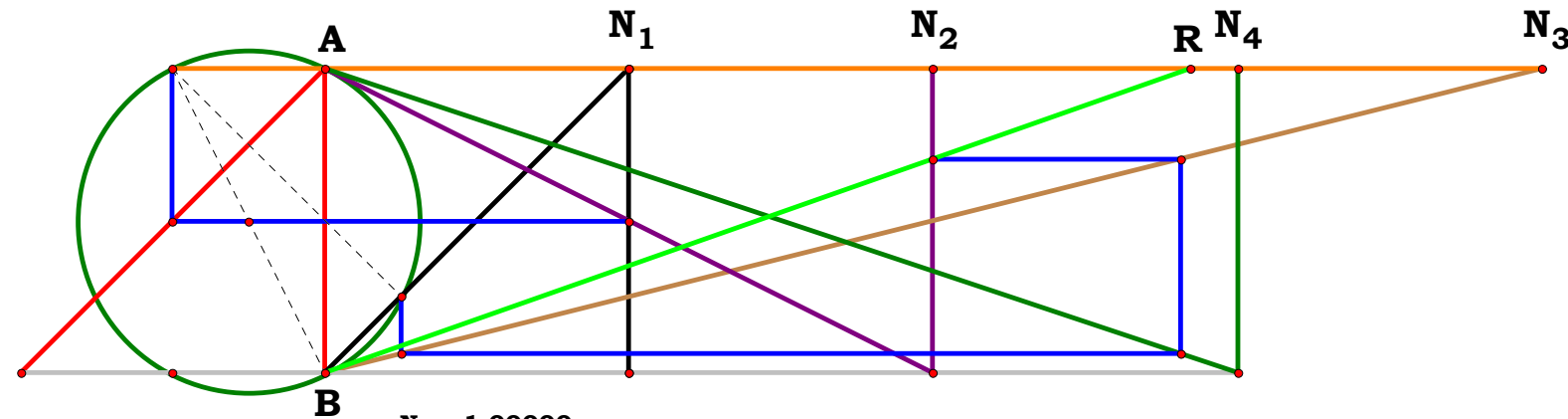
$$R - \frac{N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1) + N_1 \cdot N_4 \cdot (N_1^2 - N_2^2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\mathbf{X}^2 \cdot \mathbf{Y}^2 \cdot \mathbf{m} \cdot \mathbf{p} \cdot (\mathbf{W}^2 + \mathbf{m}^2)}{\mathbf{Y} \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{n} \cdot \mathbf{o} \cdot (\mathbf{W}^2 + \mathbf{m}^2) + \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o}^2 \cdot (\mathbf{W}^2 \cdot \mathbf{n} - \mathbf{X} \cdot \mathbf{m}^2)} = 0$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 4.00000$
 $N_4 = 3.00000$
 $R = 2.84444$

$$\frac{N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1) + N_1 \cdot N_4 \cdot (N_1^2 - N_2)} \cdot R = 0.00000$$



4RST7AB5R6

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$JO := \frac{N_4}{N_4 + N_1} \quad GH := JO + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad BO := GJ - AF$$

$$KO := \frac{BO}{N_3} \quad R := \frac{N_2}{KO} \quad R = 3.29271$$

Definitions.

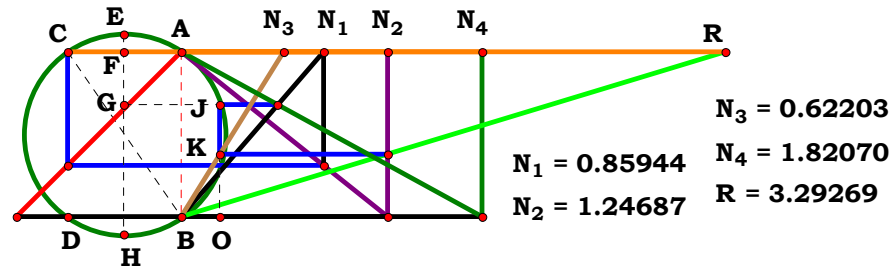
$$R - \frac{2 \cdot N_2^2 \cdot N_3 \cdot (N_1 + N_4)}{\sqrt{N_1^2 \cdot N_4^2 + 2 \cdot N_1 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2) + N_1^4 - N_1^2 - N_1 \cdot N_4}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{B \cdot C \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D \right)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X^2 \cdot Y \cdot m \cdot (W \cdot p + Z \cdot m)}{n \cdot o \cdot \left[\sqrt{W^2 \cdot m^2 \cdot n^2 \cdot Z^2 + 2 \cdot Z \cdot W \cdot m \cdot p \cdot (W^2 \cdot n^2 + 2 \cdot X^2 \cdot m^2) + W^4 \cdot n^2 \cdot p^2} - W \cdot n \cdot (W \cdot p + Z \cdot m) \right]} = 0$$

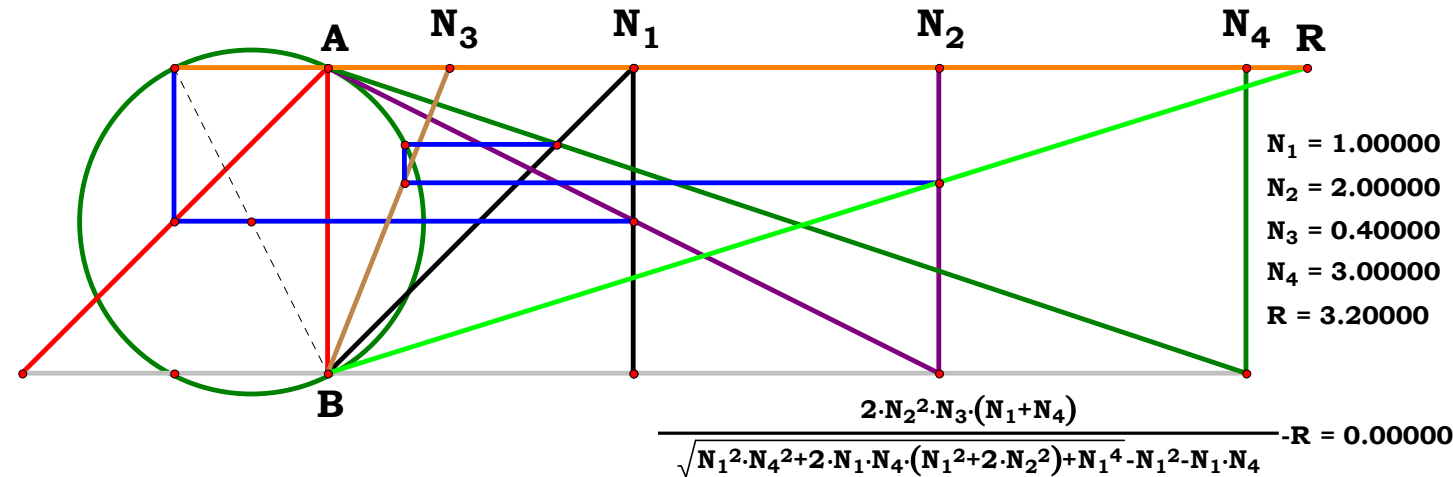


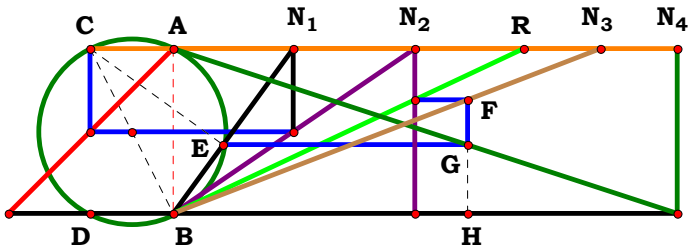
$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .85944 \quad N_2 := 1.24687 \quad N_3 := .62203$$

$$N_4 := 1.82070$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$





$$\begin{aligned} N_1 &= 0.72384 \\ N_2 &= 1.45996 \\ N_3 &= 2.58824 \\ N_4 &= 3.05079 \\ R &= 2.12346 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .72384 \quad N_2 := 1.45996 \quad N_3 := 2.58824$$

$$N_4 := 3.05079$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad CN_1 := AC + N_1$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad EN_1 := \frac{N_1 \cdot CN_1}{BN_1}$$

$$BE := BN_1 - EN_1 \quad GH := \frac{BE}{BN_1}$$

$$BH := N_4 \cdot (AB - GH) \quad FH := \frac{BH}{N_3}$$

$$R := \frac{N_2}{FH} \quad R = 2.123466$$

Definitions.

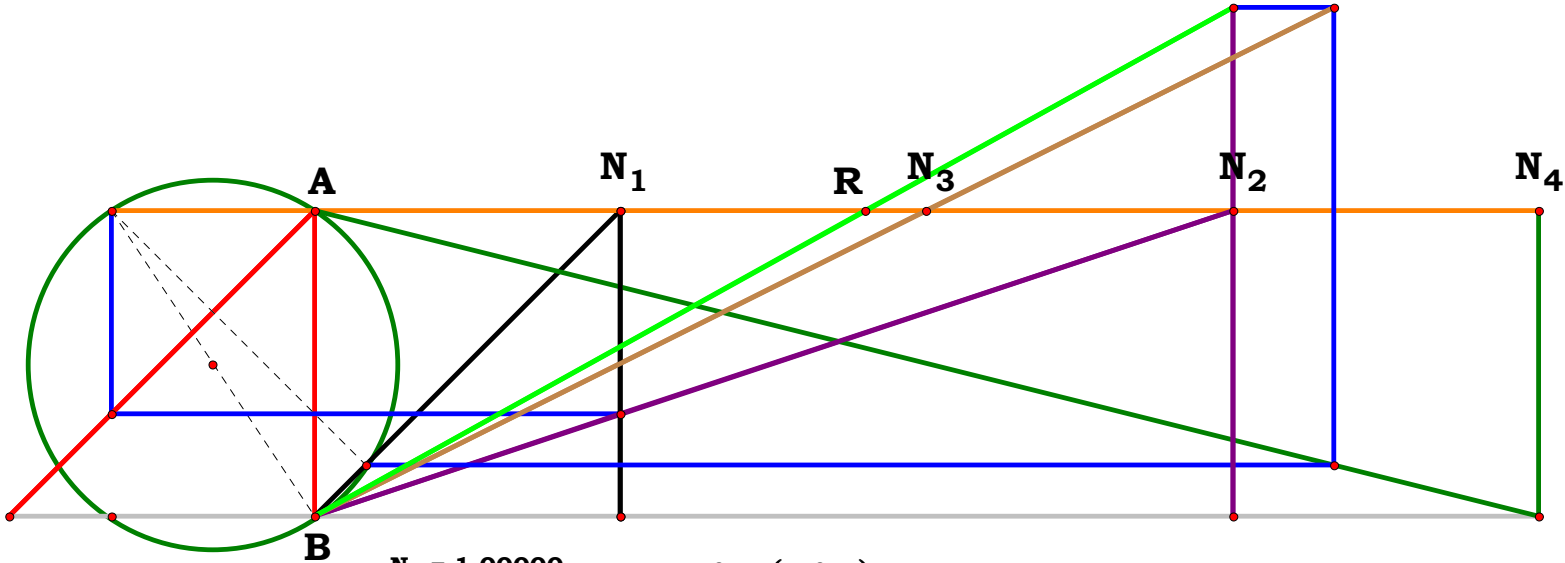
$$R - \frac{N_2^2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1 \cdot N_4 \cdot (N_2 - N_1 + N_1 \cdot N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot (A - B + N_u)} = 0$$

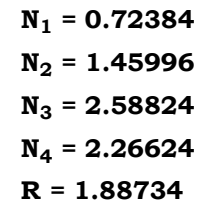
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{X^2 \cdot Y \cdot p \cdot (W^2 + m^2)}{W \cdot Z \cdot n \cdot o \cdot (W \cdot X - W \cdot n + X \cdot m)} = 0$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 3.00000 \\ N_3 &= 2.00000 \\ N_4 &= 4.00000 \\ R &= 1.80000 \end{aligned}$$

$$\frac{N_2^2 \cdot N_3 \cdot (N_1^2 + 1)}{N_1 \cdot N_4 \cdot ((N_2 - N_1) + N_1 \cdot N_2)} - R = 0.00000$$


$$\mathbf{N}_4 := 2.26624$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{N_1} \quad \mathbf{n} := \frac{\mathbf{X}}{N_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{N_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{N_4}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{CN}_1 := \mathbf{AC} + \mathbf{N}_1$$

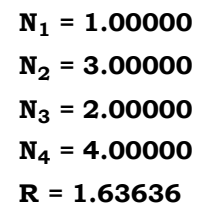
$$\mathbf{BF} := \mathbf{BN}_1 - \mathbf{FN}_1 \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1}$$

$$\text{HK} := \frac{\text{BK}}{\text{N}_3} \quad \text{R} := \frac{\text{N}_2}{\text{HK}} \quad \text{R} = 1.887347$$

$$R - \frac{N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1) - N_1 \cdot N_4 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)} = 0$$

$$\mathbf{R} - \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{A}^3 - \mathbf{C} \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]]} = 0$$

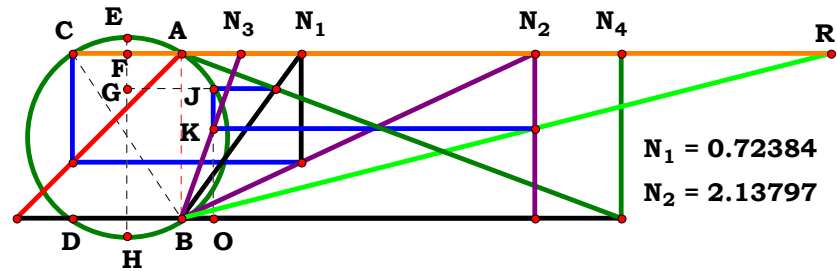
$$R - \frac{\mathbf{X}^2 \cdot \mathbf{Y}^2 \cdot \mathbf{m} \cdot \mathbf{p} \cdot (\mathbf{W}^2 + \mathbf{m}^2)}{\mathbf{Y} \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{m} \cdot \mathbf{n} \cdot \mathbf{o} \cdot (\mathbf{W}^2 + \mathbf{m}^2) - \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{n} \cdot \mathbf{o}^2 \cdot (\mathbf{n} \cdot \mathbf{W}^2 - \mathbf{X} \cdot \mathbf{W} \cdot \mathbf{m} + \mathbf{X} \cdot \mathbf{m}^2)} = 0$$



$$\frac{N_2^2 \cdot N_3^2 \cdot (N_1^2 + 1)}{N_2 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 1) \cdot N_1 \cdot N_4 \cdot ((N_1^2 \cdot N_1 \cdot N_2) + N_2)} \cdot R = 0.00000$$



4RST7AB6R6



$N_3 = 0.36051$
 $N_1 = 0.72384$ $N_4 = 2.66336$
 $N_2 = 2.13797$ $R = 3.93292$

Unit. $AB := 1$ Given. $N_1 := .72384$ $N_2 := 2.13797$ $N_3 := .36051$

$N_4 := 2.66336$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

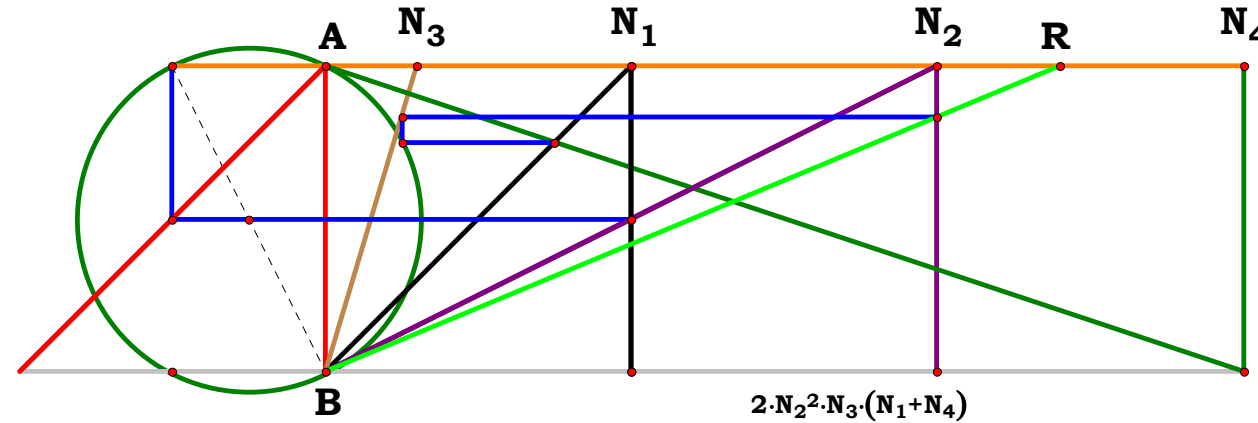
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$JO := \frac{N_4}{N_4 + N_1} \quad GH := JO + EF$$

$$GJ := \sqrt{GH \cdot (EH - GH)} \quad BO := GJ - AF$$

$$KO := \frac{BO}{N_3} \quad R := \frac{N_2}{KO} \quad R = 3.93294$$

Definitions.



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 0.30000$
 $N_4 = 3.00000$
 $R = 2.40000$

$$\frac{2 \cdot N_2^2 \cdot N_3 \cdot (N_1 + N_4)}{(N_1 - N_2) \cdot (N_1 + N_4) + \sqrt{(N_1^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_1 \cdot N_4 \cdot ((N_1^2 - 2 \cdot N_1 \cdot N_2) + 3 \cdot N_2^2)}} - R = 0.00000$$

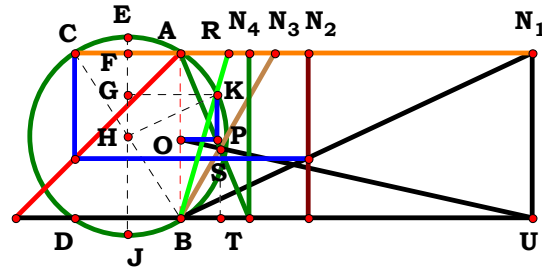
$$R - \frac{2 \cdot N_2^2 \cdot N_3 \cdot (N_1 + N_4)}{(N_1 + N_4) \cdot (N_1 - N_2) + \sqrt{(N_1^2 + N_4^2) \cdot (N_1 - N_2)^2 + 2 \cdot N_1 \cdot N_4 \cdot (N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{B \cdot C \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot X^2 \cdot Y \cdot m \cdot (W \cdot p + Z \cdot m)}{n \cdot o \cdot \left[\sqrt{X^2 \cdot m^2 \cdot (W^2 \cdot p^2 + 6 \cdot W \cdot Z \cdot m \cdot p + Z^2 \cdot m^2)} - 2 \cdot X \cdot W \cdot m \cdot n \cdot (W \cdot p + Z \cdot m)^2 + W^2 \cdot n^2 \cdot (W \cdot p + Z \cdot m)^2 + (W \cdot p + Z \cdot m) \cdot (W \cdot n - X \cdot m) \right]} = 0$$



$N_1 = 2.12828$
 $N_2 = 0.77227$
 $N_3 = 0.57360$
 $N_4 = 0.41626$
 $R = 0.29164$

Unit. $AB := 1$ Given. $N_1 := 2.12828$ $N_2 := .77227$ $N_3 := .57360$ $N_4 := .41626$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

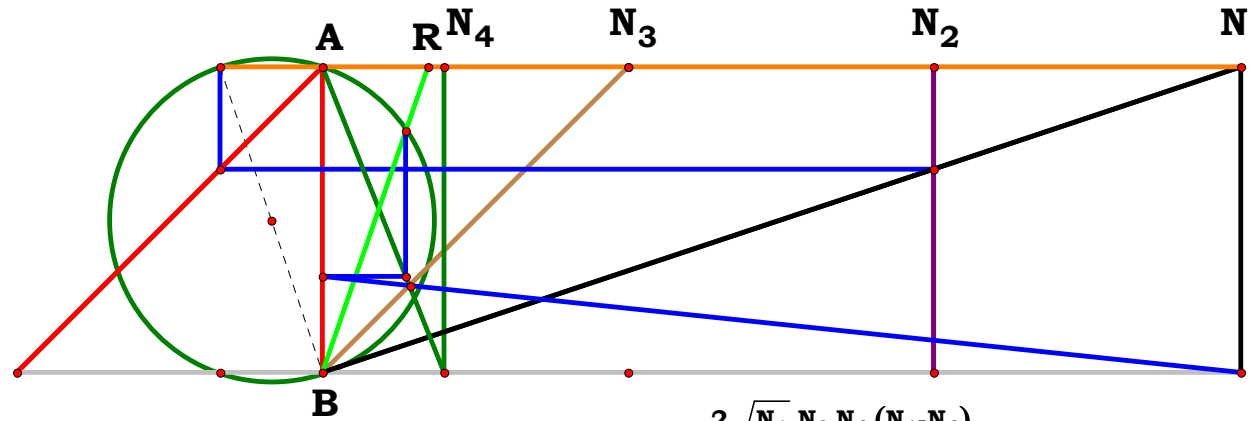
$$AF := \frac{AC}{2} \quad HK := \frac{EJ}{2} \quad ST := \frac{N_4}{N_4 + N_3} \quad BT := N_3 \cdot ST$$

$$TU := N_1 - BT \quad BO := \frac{ST \cdot N_1}{TU} \quad OP := N_4 - N_4 \cdot BO$$

$$GK := AF + OP \quad GH := \sqrt{HK^2 - GK^2}$$

$$EG := HK - GH \quad GJ := EJ - EG$$

$$R := \frac{OP}{GJ - EF} \quad R = 0.291643$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 1.00000$
 $N_4 = 0.40000$
 $R = 0.34661$

$$\frac{2 \cdot \sqrt{N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)}}{\sqrt{N_1 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)} + \sqrt{N_1^3 \cdot N_4^2 + N_3^2 \cdot (N_1 - 4 \cdot N_4 \cdot ((N_1 - N_2) + N_1 \cdot N_4)) \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot ((N_1 - 2 \cdot N_1 \cdot N_4) + 2 \cdot N_2 \cdot N_4)}} - R = 0.00000$$

Definitions.

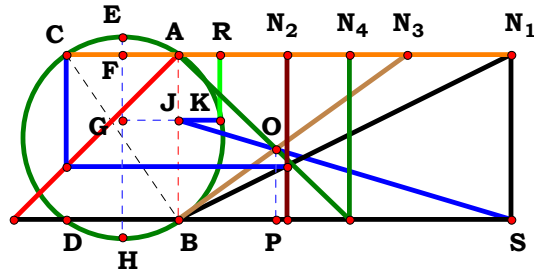
$$R - \frac{2 \cdot \sqrt{N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)}}{\sqrt{N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} + \sqrt{N_1^3 \cdot N_4^2 + N_3^2 \cdot [N_1 - 4 \cdot N_4 \cdot (N_1 - N_2 + N_1 \cdot N_4)] \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (N_1 - 2 \cdot N_1 \cdot N_4 + 2 \cdot N_2 \cdot N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{-N_u} \cdot [4 \cdot B \cdot N_u^2 \cdot (A - D)^2 - B \cdot D^2 \cdot (C - A + D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{W \cdot Y \cdot Z} \cdot (W \cdot p - Z \cdot m) \cdot \sqrt{m \cdot n}}{\sqrt{W^3 \cdot Z^2 \cdot n \cdot o^2 \cdot p^2 - Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (4 \cdot W \cdot Z^2 \cdot n - W \cdot n \cdot p^2 + 4 \cdot W \cdot Z \cdot n \cdot p - 4 \cdot X \cdot Z \cdot m \cdot p)} \dots \cdot \sqrt{m} + \sqrt{m \cdot n} \cdot \sqrt{W \cdot p} \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$



$N_1 = 2.01205$
 $N_2 = 0.65604$
 $N_3 = 1.38720$
 $N_4 = 1.03615$
 $R = 0.25654$

Unit. $AB := 1$ Given. $N_1 := 2.01205$ $N_2 := .65604$ $N_3 := 1.38720$ $N_4 := 1.03615$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

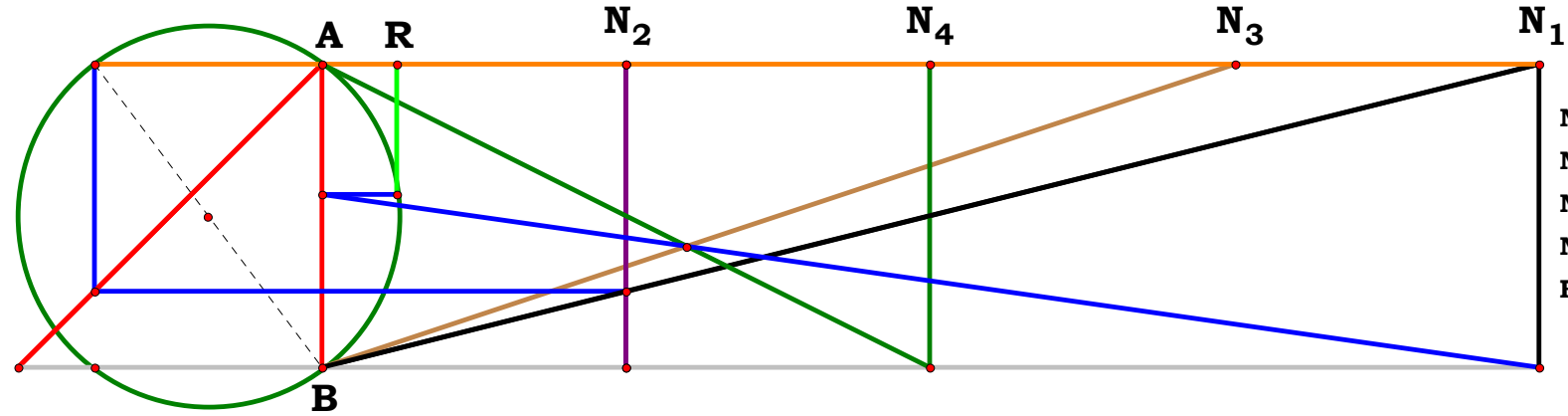
$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := GK - AF \quad R = 0.256535$$



$N_1 = 4.00000$
 $N_2 = 1.00000$
 $N_3 = 3.00000$
 $N_4 = 2.00000$
 $R = 0.24590$

$$\frac{\sqrt{(N_3 \cdot (N_1 - N_2) \cdot (N_1 - N_4))^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 - N_4) + (N_1 \cdot N_4 \cdot (N_1 - N_2))^2 - (N_1 - N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{2 \cdot N_1 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{AC^2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2 + 4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)} - AC \cdot \sqrt{N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_3 \cdot N_1 \cdot N_4 \cdot (N_1 - N_4) + N_1^2 \cdot N_4^2}}{2 \cdot \sqrt{N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_3 \cdot N_1 \cdot N_4 \cdot (N_1 - N_4) + N_1^2 \cdot N_4^2}} = 0$$

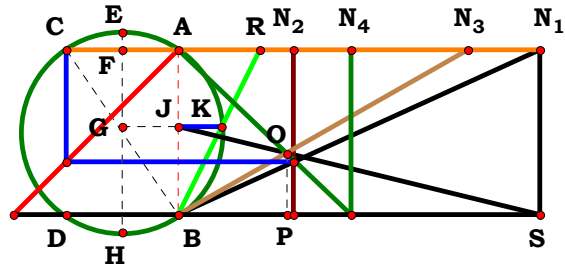
$$R - \frac{\sqrt{N_3^2 \cdot (N_1 - N_4)^2 \cdot (N_1 - N_2)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_4^2 \cdot (N_1 - N_2)^2 - (N_1 - N_2) \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(A - C - D) \cdot (A - B) - \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{2 \cdot B \cdot (A - C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (W \cdot n - X \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (3 \cdot W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot Z^2 \cdot o^2 \cdot (W \cdot n - X \cdot m)^2} - Z \cdot (W \cdot o - Y \cdot m) \cdot (W \cdot n - X \cdot m) - W \cdot Y \cdot p \cdot (W \cdot n - X \cdot m)}{2 \cdot W \cdot n \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$



$$\begin{aligned} N_1 &= 2.18639 \\ N_2 &= 0.69478 \\ N_3 &= 1.75526 \\ N_4 &= 1.04584 \\ R &= 0.49374 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.18639 \quad N_2 := .69478 \quad N_3 := 1.75526 \quad N_4 := 1.04584$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

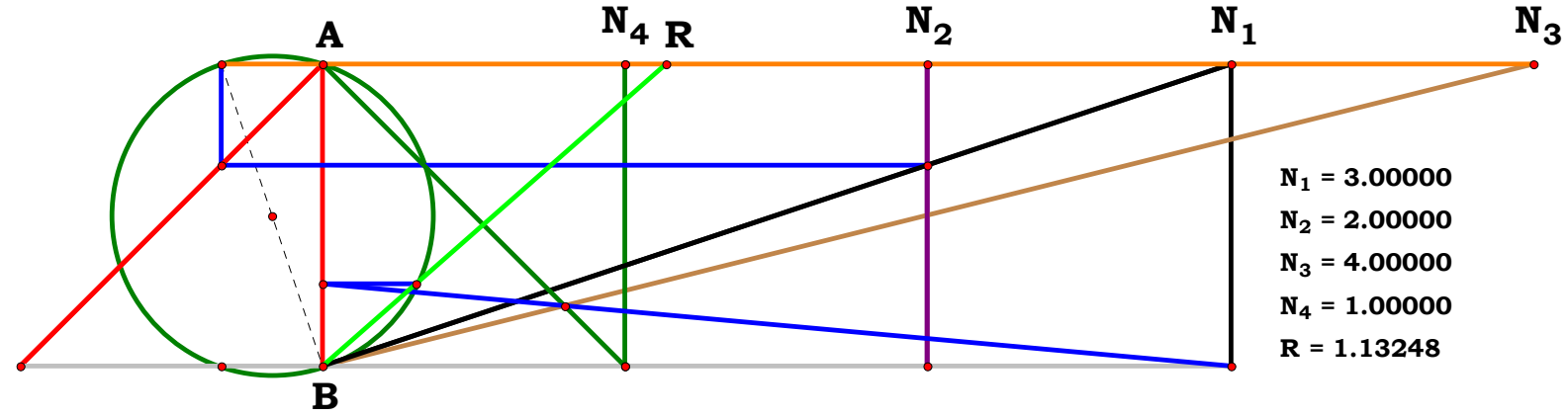
Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS} \quad GH := BJ + EF$$

$$GK := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GK - AF}{BJ} \quad R = 0.493733$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 4.00000 \\ N_4 &= 1.00000 \\ R &= 1.13248 \end{aligned}$$

$$\frac{\sqrt{(N_1 - N_2)^2 \cdot (N_3^2 \cdot (N_1 - N_4)^2 + N_1^2 \cdot N_4^2) + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot ((3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 - N_4) - (N_1 - N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{2 \cdot N_1^2 \cdot N_4} - R = 0.00000$$

Definitions.

$$R - \frac{\left[\sqrt{AC^2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2 + 4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)} - AC \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2} \right] \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1 \cdot N_4 \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2}} = 0$$

$$R - \frac{\sqrt{(N_1 - N_2)^2 \cdot [N_3^2 \cdot (N_1 - N_4)^2 + N_1^2 \cdot N_4^2] + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 - N_4) - (N_1 - N_2) \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot N_1^2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

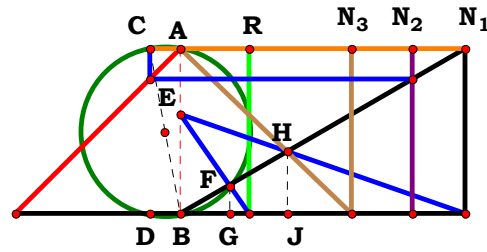
$$R - \frac{(C - A + D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 - 2 \cdot C \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) \cdot (A - D) + (A - D)^2 \cdot (A - B)^2}}{2 \cdot B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (W \cdot n - X \cdot m)^2 + W \cdot Z \cdot o \cdot [2 \cdot Y \cdot (3 \cdot W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W \cdot Z \cdot o \cdot (W \cdot n - X \cdot m)^2]} - (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m) \cdot (W \cdot n - X \cdot m)}{2 \cdot W^2 \cdot Z \cdot n \cdot o} = 0$$



4RST8AB1R4



$N_1 = 1.72148$
 $N_2 = 1.40185$
 $N_3 = 1.03851$
 $R = 0.41304$

Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 1.40185$ $N_3 := 1.03851$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad HJ := \frac{N_3}{N_1 + N_3} \quad BJ := N_1 \cdot HJ$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{HJ \cdot N_1}{N_1 - BJ} \quad R := \frac{BE \cdot BG}{BE - FG} \quad R = 0.413038$$

Definitions.

$$R - \frac{N_1 \cdot N_3 \cdot (AC \cdot N_1 - 1)}{N_1 - N_3 - N_1^2 \cdot N_3 - AC \cdot N_1^2} = 0$$

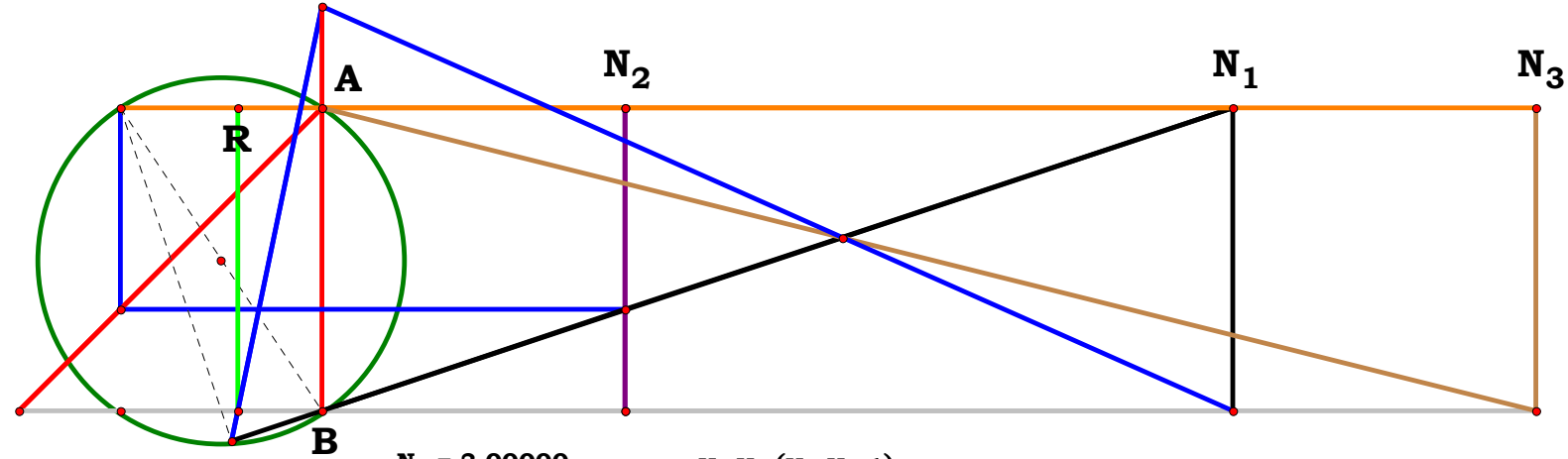
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_2 - 1)}{N_1 - N_3 - N_1^2 \cdot N_3 - N_1^2 + N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot [A \cdot B + N_u \cdot (A - B)]}{A \cdot B \cdot (A - C) - N_u \cdot [C \cdot (A - B) - B \cdot N_u]} = 0$$

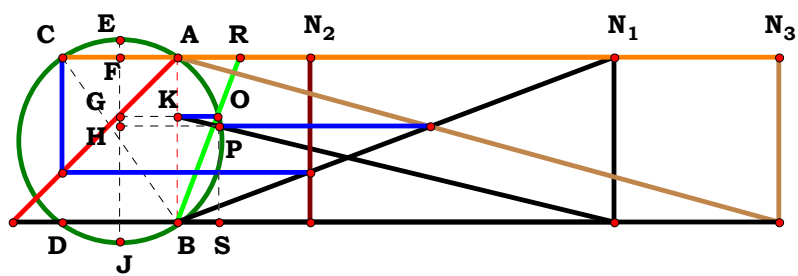
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Z \cdot (Y \cdot o - X \cdot p + o \cdot p)}{X^2 \cdot p \cdot (Z + q) - X \cdot o \cdot q \cdot (Y + p) + Z \cdot o^2 \cdot p} = 0$$



$N_1 = 3.00000$
 $N_2 = 1.00000$
 $N_3 = 4.00000$
 $R = -0.27907$

$$\frac{N_1 \cdot N_3 \cdot (N_1 - N_2 - 1)}{(N_1 - N_3 - N_1^2 \cdot N_3 - N_1^2) + N_1 \cdot N_2} \cdot R = 0.00000$$



$N_1 = 2.64163$
 $N_2 = 0.80133$
 $N_3 = 3.64399$
 $R = 0.38058$

Unit. $AB := 1$ Given. $N_1 := 2.64163$ $N_2 := .80133$ $N_3 := 3.64399$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

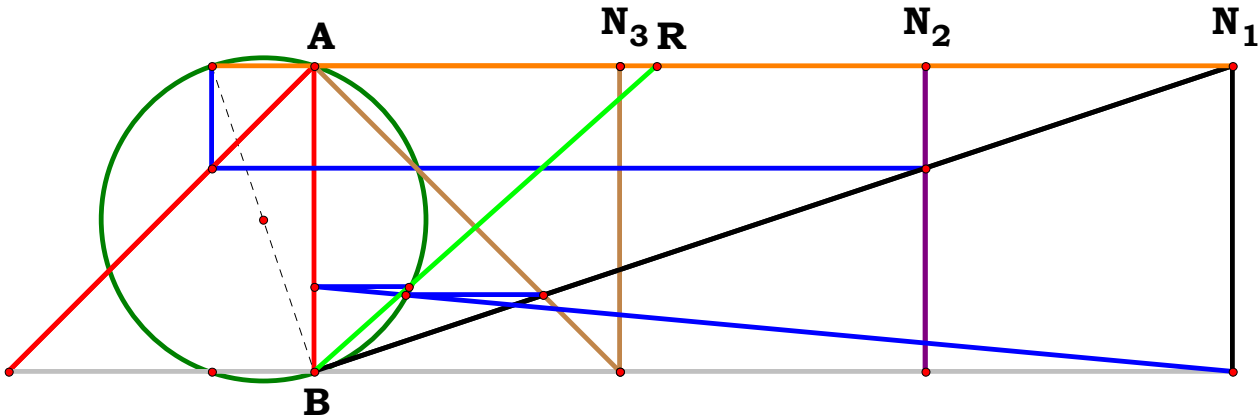
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.380582$$



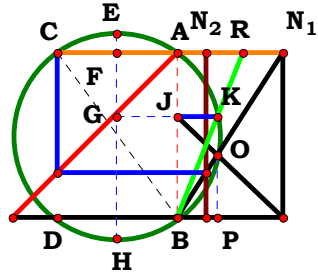
$N_1 = 3.00000$	$AB = 1.00000$	$EF = 0.02705$	$BS = 0.29731$	$KO = 0.31111$
$N_2 = 2.00000$	$AC = 0.33333$	$PS = 0.25000$	$BK = 0.27750$	$R - \frac{KO}{BK} = 0.00000$
$N_3 = 1.00000$	$EJ = 1.05409$	$HJ = 0.27705$	$GJ = 0.30455$	
$R = 1.12112$	$AF = 0.16667$	$HP = 0.46398$	$GO = 0.47778$	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$$\begin{aligned} N_1 &= 0.63667 \\ N_2 &= 0.17175 \\ R &= 0.39564 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= .63667 & N_2 &:= .17175 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & Y &:= 20 & Z &:= 19 & p &:= \frac{Y}{N_1} & q &:= \frac{Z}{N_2} \end{aligned}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BO := BN_1 - ON_1$$

$$BP := \frac{N_1 \cdot BO}{BN_1} \quad OP := \frac{BP}{N_1} \quad BJ := \frac{OP \cdot N_1}{N_1 - BP} \quad GH := BJ + EF$$

$$GK := \sqrt{GH \cdot (EH - GH)} \quad JK := GK - AF \quad R := \frac{JK}{BJ} \quad R = 0.395642$$

Definitions.

$$R - \frac{N_1 \cdot (AC + N_1) \cdot \left[AC \cdot \sqrt{N_1^2 \cdot (AC + N_1)^2} - \sqrt{N_1^2 \cdot AC^4 + AC^2 \cdot N_1^2 \cdot (N_1^2 + 2 \cdot AC \cdot N_1 - 8)} - 4 \cdot AC \cdot N_1 \cdot (N_1^2 - 3) + 4 \cdot N_1^2 - 4 \right]}{2 \cdot (AC \cdot N_1 - 1) \cdot \sqrt{N_1^2 \cdot (AC + N_1)^2}} = 0$$

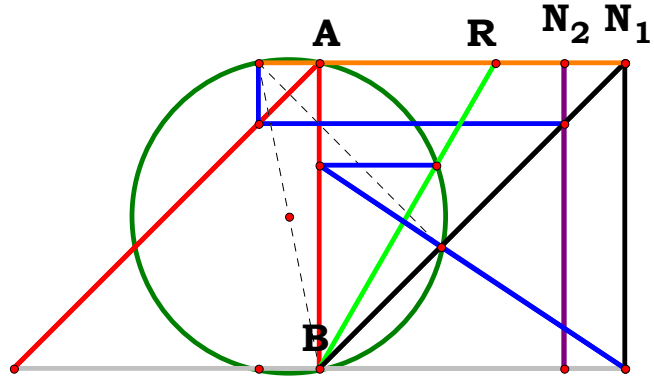
$$R - \frac{(N_1^2 + N_1 - N_2) \cdot (N_1 - N_2) - \sqrt{N_1^6 - N_1^4 \cdot (N_2 + 1) \cdot (2 \cdot N_1 - N_2 + 3) + 6 \cdot N_1^3 \cdot (N_2^2 + 2 \cdot N_2 + 2) - 2 \cdot N_1^2 \cdot (N_2^3 + N_2^2 + 6 \cdot N_2 + 2) + N_2^3 \cdot (N_2 - 4 \cdot N_1)}}{2 \cdot N_1 \cdot (N_1 - N_2 - 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2} + \left[2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) - 12 \cdot A^3 \cdot B^3 \cdot N_u \right] \cdot (A - B) + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2) - 4 \cdot A^4 \cdot B^4 - N_u \cdot (A - B) \cdot (A^2 - B \cdot A - B \cdot N_u)}{2 \cdot A \cdot B \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{(q \cdot Y^2 + q \cdot Y \cdot p - Z \cdot p^2) \cdot (Y \cdot q - Z \cdot p) - \sqrt{q^4 \cdot Y^6 - 2 \cdot Y^5 \cdot p \cdot q^3 \cdot (Z + q) + Y^4 \cdot p^2 \cdot q^2 \cdot (Z + q) \cdot (Z - 3 \cdot q) + 6 \cdot Y^3 \cdot p^3 \cdot q^2 \cdot (Z^2 + 2 \cdot Z \cdot q + 2 \cdot q^2) \dots}}{2 \cdot Y \cdot p \cdot q \cdot (Y \cdot q - Z \cdot p - p \cdot q)} = 0$$

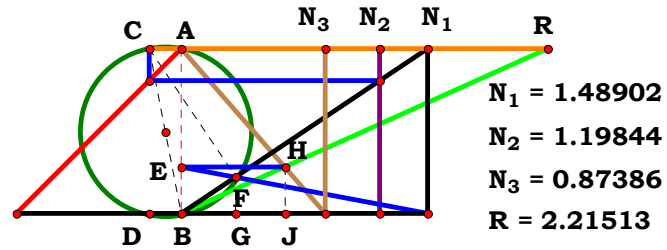


$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 0.80000 \\ R &= 0.57284 \end{aligned}$$

$$\frac{((N_1^2 + N_1) \cdot N_2) \cdot (N_1 - N_2) - \sqrt{((N_1^6 - N_1^4 \cdot (N_2 + 1) \cdot ((2 \cdot N_1 - N_2) + 3)) + 6 \cdot N_1^3 \cdot (N_2^2 + 2 \cdot N_2 + 2)) - 2 \cdot N_1^2 \cdot (N_2^3 + N_2^2 + 6 \cdot N_2 + 2)) + N_2^3 \cdot (N_2 - 4 \cdot N_1)}}{2 \cdot N_1 \cdot (N_1 - N_2 - 1)} - R = 0.00000$$



4RST8AB1R7



Unit. $AB := 1$ Given. $N_1 := 1.48902$ $N_2 := 1.19844$ $N_3 := .87386$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad BJ := N_3 \cdot (AB - BE)$$

$$R := \frac{BJ}{BE} \quad R = 2.215187$$

Definitions.

$$R - \frac{N_3 \cdot (N_1^2 + 2 \cdot AC \cdot N_1 - 1)}{1 - AC \cdot N_1} = 0$$

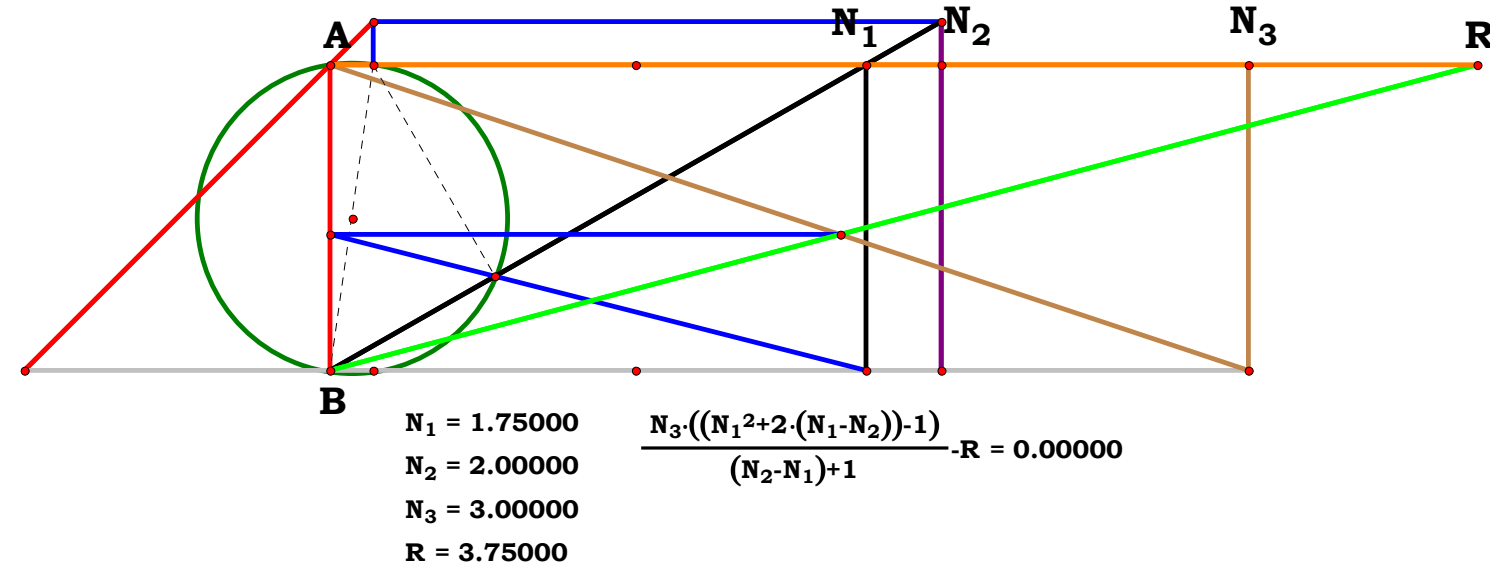
$$R - \frac{N_3 \cdot (N_1^2 + 2 \cdot N_1 - 2 \cdot N_2 - 1)}{N_2 - N_1 + 1} = 0$$

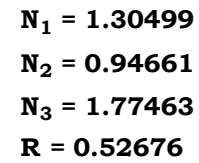
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]}{A \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Z \cdot p \cdot (X + 2 \cdot o) - Z \cdot o^2 \cdot (2 \cdot Y + p)}{o \cdot q \cdot (Y \cdot o - X \cdot p + o \cdot p)} = 0$$




$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$
$$\mathbf{AC} := \frac{N_1 - N_2}{N_1} \quad \mathbf{BE} := \frac{N_3}{N_1 + N_3}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{FN}_1 := \frac{\mathbf{N}_1 \cdot (\mathbf{N}_1 + \mathbf{AC})}{\mathbf{BN}_1}$$

$$\mathbf{BF} := \mathbf{BN}_1 - \mathbf{FN}_1 \quad \mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1}$$

$$\mathbf{FG} := \frac{\mathbf{BG}}{N_1} \quad \mathbf{R} := \frac{\mathbf{BG} \cdot \mathbf{BE}}{\mathbf{BE} - \mathbf{FG}} \quad \mathbf{R} = 0.526755$$

$$R - \frac{N_3 - AC \cdot N_1 \cdot N_3}{AC \cdot N_1 + AC \cdot N_3 + N_1 \cdot N_3 - 1} = 0$$

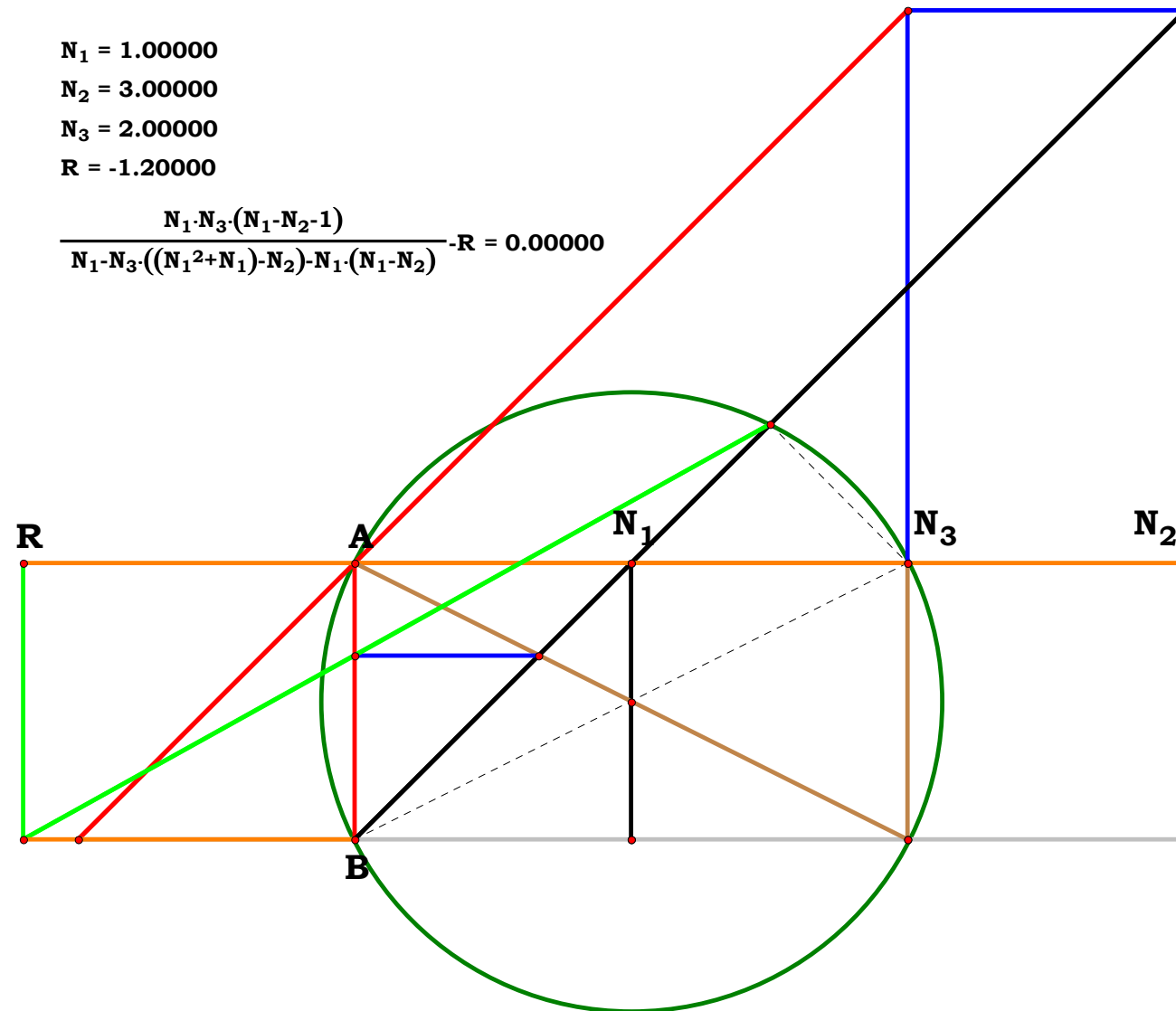
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_2 - 1)}{N_1 - N_3 \cdot (N_1^2 + N_1 - N_2) - N_1 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}} = 0$$

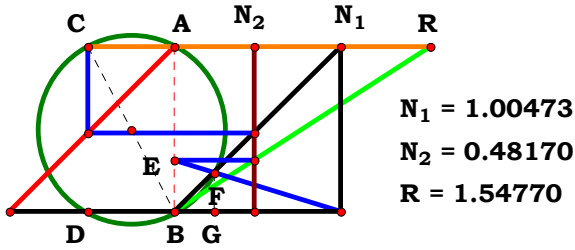
$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o} - \mathbf{o} \cdot \mathbf{p})}{\mathbf{X} \cdot \mathbf{o} \cdot (\mathbf{Y} \cdot \mathbf{q} - \mathbf{Z} \cdot \mathbf{p} + \mathbf{p} \cdot \mathbf{q}) + \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o}^2 - \mathbf{X}^2 \cdot \mathbf{p} \cdot (\mathbf{Z} + \mathbf{q})} = 0$$





4RST8AB1R9



$$\begin{aligned} N_1 &= 1.00473 \\ N_2 &= 0.48170 \\ R &= 1.54770 \end{aligned}$$

Unit. $AB := 1$ Given. $N_1 := 1.21782$ $N_2 := .86913$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

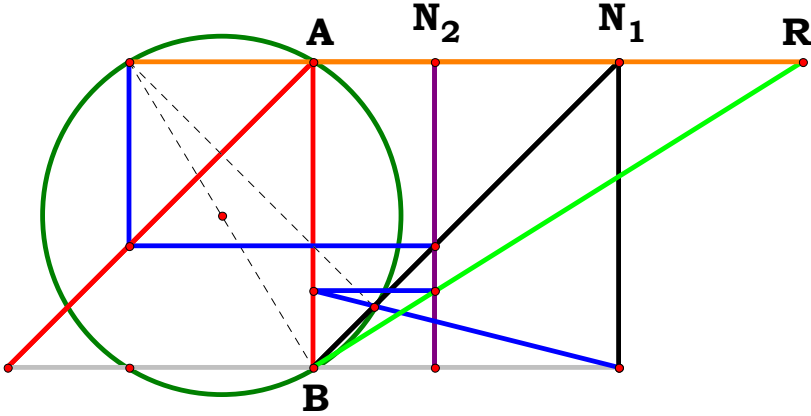
Descriptions.

$$\begin{aligned} AC &:= \frac{N_1 - N_2}{N_1} & BN_1 &:= \sqrt{AB^2 + N_1^2} \\ FN_1 &:= \frac{N_1 \cdot (N_1 + AC)}{BN_1} & BF &:= BN_1 - FN_1 \\ BG &:= \frac{N_1 \cdot BF}{BN_1} & FG &:= \frac{BG}{N_1} \\ BE &:= \frac{FG \cdot N_1}{N_1 - BG} & R &:= \frac{N_2}{BE} \end{aligned}$$

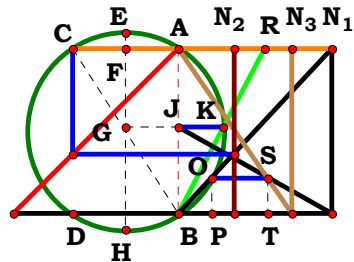
$$R = 2.444383$$

Definitions.

$$\begin{aligned} R - \frac{N_1 \cdot N_2 \cdot (AC + N_1)}{1 - AC \cdot N_1} &= 0 \\ R - \frac{N_2 \cdot (N_1^2 + N_1 - N_2)}{N_2 - N_1 + 1} &= 0 \\ N_1 - \frac{N_u}{A} &= 0 & N_2 - \frac{N_u}{B} &= 0 \\ R - \frac{N_u^2 \cdot (B \cdot A - A^2 + B \cdot N_u)}{A \cdot B \cdot [A \cdot B + N_u \cdot (A - B)]} &= 0 \\ N_1 - \frac{Y}{p} &= 0 & N_2 - \frac{Z}{q} &= 0 \\ R - \frac{Z \cdot (q \cdot Y^2 + q \cdot Y \cdot p - Z \cdot p^2)}{p \cdot q \cdot (Z \cdot p - Y \cdot q + p \cdot q)} &= 0 \end{aligned}$$



$$\begin{aligned} N_1 &= 1.00000 & \frac{N_2 \cdot ((N_1^2 + N_1) - N_2)}{(N_2 - N_1) + 1} \cdot R &= 0.00000 \\ N_2 &= 0.40000 \\ R &= 1.60000 \end{aligned}$$



$N_1 = 0.92724$
 $N_2 = 0.33641$
 $N_3 = 0.68983$
 $R = 0.52232$

Unit. $AB := 1$ Given. $N_1 := .92724$ $N_2 := .33641$ $N_3 := .68983$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

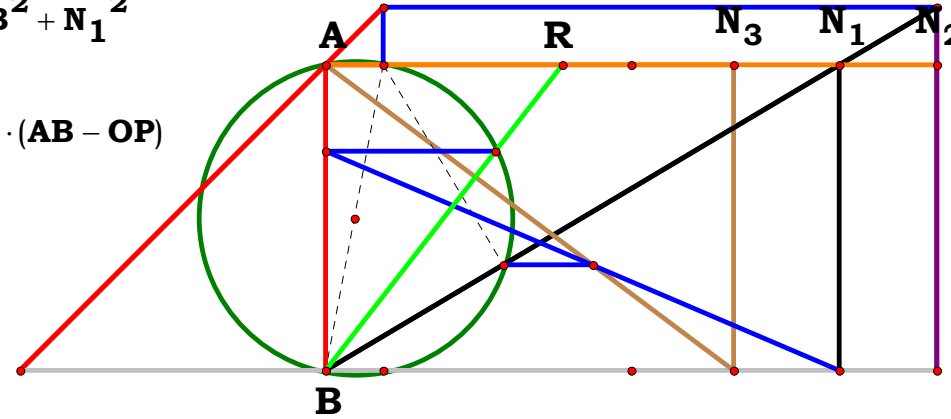
Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BO := BN_1 - ON_1 \quad BP := \frac{N_1 \cdot BO}{BN_1} \quad OP := \frac{BP}{N_1} \quad BT := N_3 \cdot (AB - OP)$$

$$BJ := \frac{OP \cdot N_1}{N_1 - BT} \quad GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GK - AF}{BJ} \quad R = 0.52231$$



$N_1 = 1.67976$
 $N_2 = 2.00000$
 $N_3 = 1.33325$
 $R = 0.77165$

$$\frac{(N_1 - N_2) \cdot (((N_1 - N_1^2 \cdot N_3) + N_1^3) - N_1 \cdot N_3) + N_2 \cdot N_3 - \sqrt{((N_3^2 \cdot ((N_1^2 + N_1) - N_2)^2 \cdot (N_1 - N_2)^2) + (N_1^2 \cdot ((N_2 - N_1 - N_1^2 \cdot N_2 - 2 \cdot N_1^2) + N_1^3)^2)) - (2 \cdot N_1 \cdot N_3 \cdot ((N_1^2 + N_1) - N_2) \cdot (((N_1^4 - 2 \cdot N_1^3 \cdot (N_2 + 1)) + N_1^2 \cdot (N_2^2 + 2 \cdot N_2 + 3)) - N_2 \cdot (2 \cdot N_1 - N_2)))}}{2 \cdot N_1^2 \cdot (N_1 - N_2 - 1)} - R = 0.00000$$

Definitions.

$$R - \frac{\left[2 \cdot \sqrt{N_3^2 \cdot AC^4 + -2 \cdot AC^3 \cdot N_3 \cdot (N_1^2 - N_3 \cdot N_1 + 1) + AC^2 \cdot (N_1^2 - N_3 \cdot N_1 - 1)^2 - 4 \cdot (N_1 - N_3) \cdot (AC \cdot N_1^2 - N_1 - AC)} \dots \cdot (N_1 \cdot N_3 - N_1^2 + AC \cdot N_3 - 1) \right.}{2 \cdot \sqrt{4 \cdot (N_1^2 - N_1 \cdot N_3 - AC \cdot N_3 + 1)^2 \cdot (AC \cdot N_1 - 1)}} = 0$$

$$R - \frac{(N_1 - N_2) \cdot (N_1 - N_1^2 \cdot N_3 + N_1^3 - N_1 \cdot N_3 + N_2 \cdot N_3) - \sqrt{N_3^2 \cdot (N_1^2 + N_1 - N_2)^2 \cdot (N_1 - N_2)^2 + N_1^2 \cdot (N_2 - N_1 - N_1^2 \cdot N_2 - 2 \cdot N_1^2 + N_1^3)^2 \dots + -2 \cdot N_1 \cdot N_3 \cdot (N_1^2 + N_1 - N_2) \cdot [N_1^4 - 2 \cdot N_1^3 \cdot (N_2 + 1) + N_1^2 \cdot (N_2^2 + 2 \cdot N_2 + 3) - N_2 \cdot (2 \cdot N_1 - N_2)]}}{2 \cdot N_1^2 \cdot (N_1 - N_2 - 1)} = 0$$

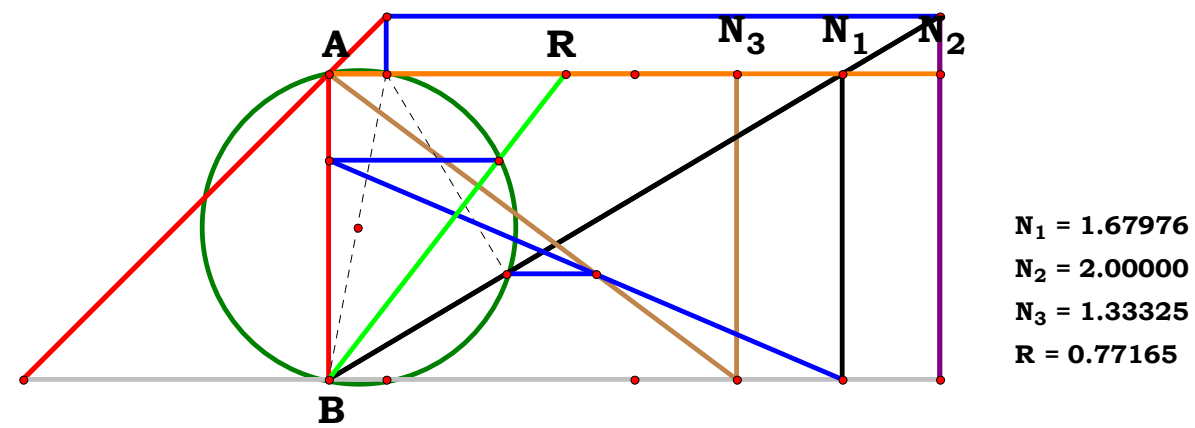
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 \cdot [N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot (B \cdot A - A^2 + B \cdot N_u)^2 \dots + -2 \cdot A \cdot B \cdot C \cdot N_u \cdot (B \cdot A - A^2 + B \cdot N_u) \cdot [N_u^2 \cdot (A - B)^2 + A^2 \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) + 2 \cdot A \cdot B \cdot N_u \cdot (A - B)]}}{2 \cdot A \cdot B \cdot C \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)} + (A - B) \cdot [(B \cdot C - A \cdot B) \cdot N_u^2 + (A^3 - A^2 \cdot B) \cdot N_u + A^2 \cdot B \cdot C] = 0$$

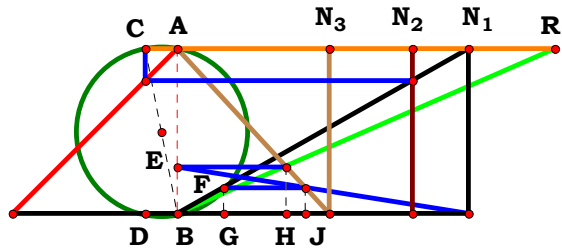


$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(X \cdot p - Y \cdot o) \cdot [X \cdot p \cdot q \cdot (X^2 + o^2) - Z \cdot o \cdot (p \cdot X^2 + p \cdot X \cdot o - Y \cdot o^2)] - \sqrt{Z^2 \cdot o^2 \cdot (p \cdot X^2 + p \cdot X \cdot o - Y \cdot o^2)^2 \cdot (X \cdot p - Y \cdot o)^2 \dots + -2 \cdot Z \cdot X \cdot o \cdot p \cdot q \cdot (p \cdot X^2 + p \cdot X \cdot o - Y \cdot o^2) \cdot \left(X^4 \cdot p^2 - 2 \cdot X^3 \cdot Y \cdot o \cdot p - 2 \cdot X^3 \cdot o \cdot p^2 + X^2 \cdot Y^2 \cdot o^2 \dots + 2 \cdot X^2 \cdot Y \cdot o^2 \cdot p + 3 \cdot X^2 \cdot o^2 \cdot p^2 - 2 \cdot X \cdot Y \cdot o^3 \cdot p + Y^2 \cdot o^4 \right) \dots + X^2 \cdot p^2 \cdot q^2 \cdot (Y \cdot o^3 + X^3 \cdot p - X^2 \cdot Y \cdot o - X \cdot o^2 \cdot p - 2 \cdot X^2 \cdot o \cdot p)^2}}{2 \cdot X^2 \cdot o \cdot p \cdot q \cdot (X \cdot p - Y \cdot o - o \cdot p)} = 0$$



$$\frac{(N_1 - N_2) \cdot (((N_1 - N_1^2 \cdot N_3) + N_1^3) - N_1 \cdot N_3) + N_2 \cdot N_3 - \sqrt{((N_3^2 \cdot ((N_1^2 + N_1) - N_2)^2 \cdot (N_1 - N_2)^2) + (N_1^2 \cdot ((N_2 - N_1 - N_1^2 \cdot N_2 - 2 \cdot N_1^2) + N_1^3)^2)) - (2 \cdot N_1 \cdot N_3 \cdot ((N_1^2 + N_1) - N_2) \cdot (((N_1^4 - 2 \cdot N_1^3 \cdot (N_2 + 1)) + N_1^2 \cdot (N_2^2 + 2 \cdot N_2 + 3)) - N_2 \cdot (2 \cdot N_1 - N_2)))}}{2 \cdot N_1^2 \cdot (N_1 - N_2 - 1)} - R = 0.00000$$



$$\begin{aligned} N_1 &= 1.76022 \\ N_2 &= 1.42122 \\ N_3 &= 0.92228 \\ R &= 2.28316 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.76022 \quad N_2 := 1.42122 \quad N_3 := .92228$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BJ := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BJ}$$

$$BH := N_3 \cdot (AB - BE) \quad R := \frac{BH}{BE} \quad R = 2.283148$$

Definitions.

$$R - \frac{N_3 \cdot (AC + N_1) \cdot (N_1 - N_3)}{1 - AC \cdot N_1} = 0$$

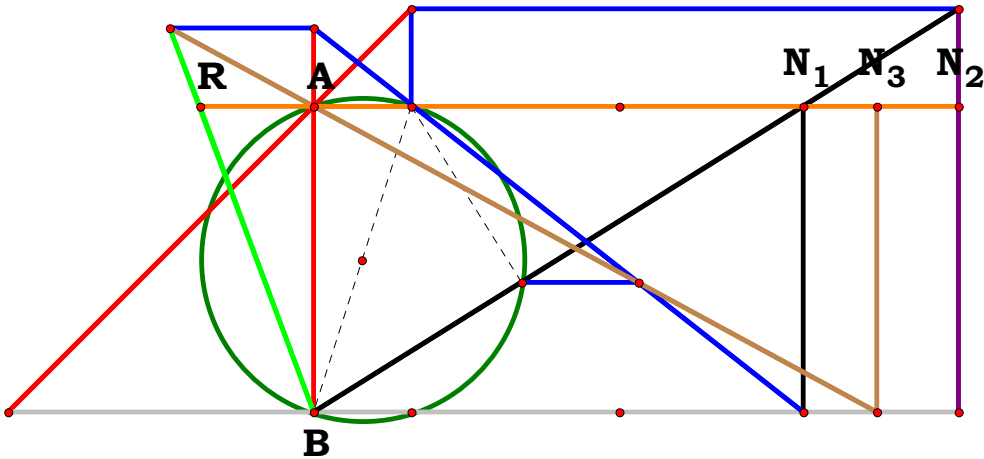
$$R - \frac{N_3 \cdot (N_1 - N_3) \cdot (N_1^2 + N_1 - N_2)}{N_1 \cdot (N_2 - N_1 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 \cdot (A - C) \cdot (A^2 - B \cdot A - B \cdot N_u)}{A \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot q - Z \cdot o) \cdot (p \cdot X^2 + p \cdot X \cdot o - Y \cdot o^2)}{X \cdot o \cdot q^2 \cdot (Y \cdot o - X \cdot p + o \cdot p)} = 0$$

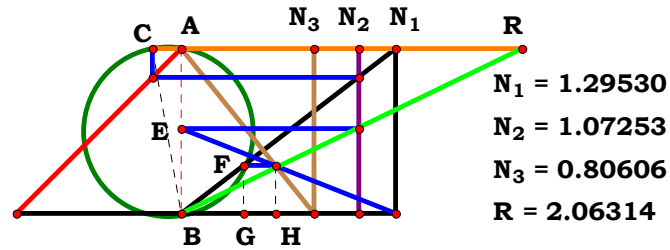


$$\begin{aligned} N_1 &= 1.59993 \\ N_2 &= 2.10981 \\ N_3 &= 1.83918 \\ R &= -0.37340 \end{aligned}$$

$$\frac{N_3 \cdot (N_1 - N_3) \cdot ((N_1^2 + N_1) - N_2)}{N_1 \cdot ((N_2 - N_1) + 1)} - R = 0.00000$$



4RST8AB1R12



Unit. $AB := 1$ Given. $N_1 := 1.29530$ $N_2 := 1.07253$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BH := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BH}$$

$$R := \frac{N_2}{BE} \quad R = 2.063124$$

Definitions.

$$R - \frac{N_2 \cdot (N_1 \cdot N_3 - N_1^2 + AC \cdot N_3 - 1)}{AC \cdot N_1 - 1} = 0$$

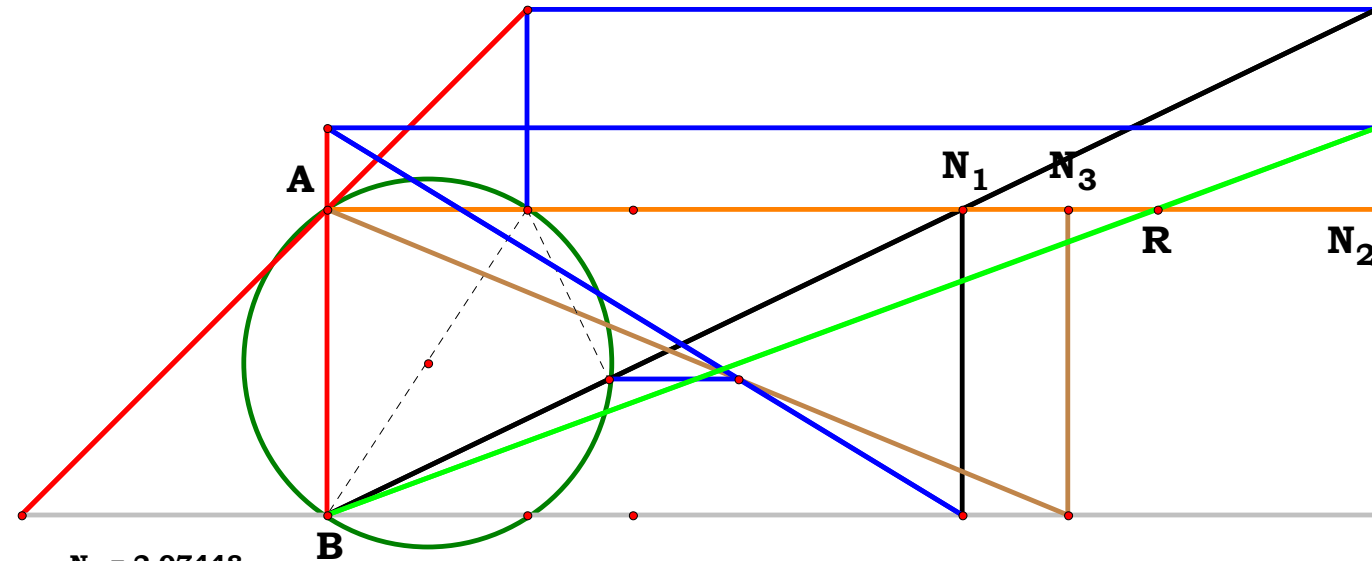
$$R - \frac{N_2 \cdot (N_1 - N_1^2 \cdot N_3 + N_1^3 - N_1 \cdot N_3 + N_2 \cdot N_3)}{N_1 \cdot (N_2 - N_1 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 \cdot A^2 \cdot (A - B) - N_u^3 \cdot B \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u}{A \cdot B \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot [X \cdot p \cdot q \cdot (X^2 + o^2) - Z \cdot o \cdot (p \cdot X^2 + p \cdot X \cdot o - Y \cdot o^2)]}{X \cdot o \cdot p \cdot q \cdot (Y \cdot o - X \cdot p + o \cdot p)} = 0$$



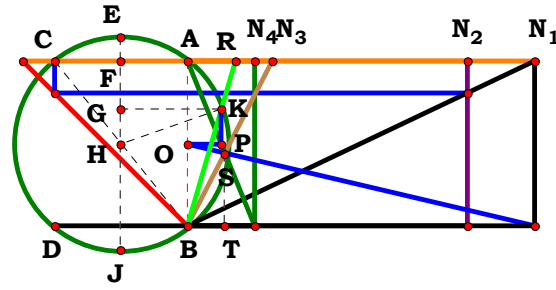
$$N_1 = 2.07448$$

$$N_2 = 3.43272$$

$$N_3 = 2.42227$$

$$R = 2.71399$$

$$\frac{N_2 \cdot (((N_1 \cdot N_1^2 \cdot N_3) + N_1^3) - N_1 \cdot N_3) + N_2 \cdot N_3}{N_1 \cdot ((N_2 - N_1) + 1)} - R = 0.00000$$



$N_1 = 2.09922$
 $N_2 = 1.69242$
 $N_3 = 0.51548$
 $N_4 = 0.40657$
 $R = 0.29150$

Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.69242$ $N_3 := .51548$ $N_4 := .40657$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

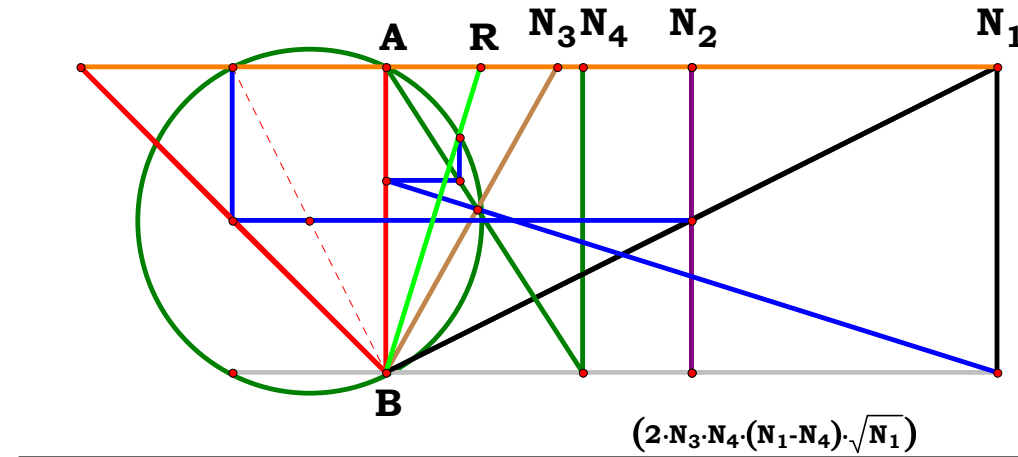
$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad HK := \frac{EJ}{2} \quad ST := \frac{N_4}{N_4 + N_3} \quad BT := N_3 \cdot ST$$

$$TU := N_1 - BT \quad BO := \frac{ST \cdot N_1}{TU} \quad OP := N_4 - N_4 \cdot BO$$

$$GK := AF + OP \quad GH := \sqrt{HK^2 - GK^2} \quad EG := HK - GH$$

$$GJ := EJ - EG \quad R := \frac{OP}{GJ - EF} \quad R = 0.291496$$



$N_1 = 2.00000$
 $N_2 = 1.00000$
 $N_3 = 0.56205$
 $N_4 = 0.64118$
 $R = 0.31070$

$$\frac{(2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot \sqrt{N_1})}{(((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4) \cdot \sqrt{N_1}) + \sqrt{(2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - 2 \cdot N_2 \cdot N_4) \cdot (N_1 - N_4) - N_3^2 \cdot (N_1 - N_4)^2 \cdot ((4 \cdot N_1 \cdot N_4^2 + 4 \cdot N_2 \cdot N_4 - N_1)) + N_1^3 \cdot N_4^2)}} - R = 0.00000$$

Definitions.

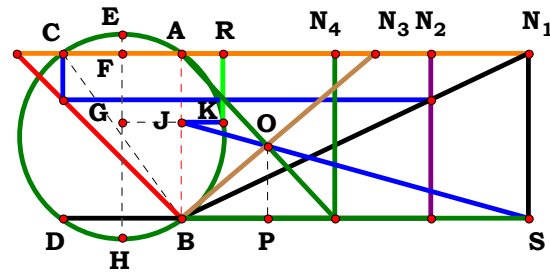
$$R - \frac{2 \cdot \sqrt{N_1} \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)}{\sqrt{N_1} \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4) + \sqrt{2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - 2 \cdot N_2 \cdot N_4) \cdot (N_1 - N_4) - N_3^2 \cdot (N_1 - N_4)^2 \cdot (4 \cdot N_1 \cdot N_4^2 + 4 \cdot N_2 \cdot N_4 - N_1) + N_1^3 \cdot N_4^2}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot [B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{W} \cdot Y \cdot Z \cdot \sqrt{n} \cdot (W \cdot p - Z \cdot m)}{\sqrt{2 \cdot Y \cdot W \cdot Z \cdot o \cdot p \cdot (W \cdot p - Z \cdot m) \cdot (W \cdot n \cdot p - 2 \cdot X \cdot Z \cdot m) - Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (4 \cdot W \cdot n \cdot Z^2 + 4 \cdot X \cdot m \cdot Z \cdot p - W \cdot n \cdot p^2) + W^3 \cdot Z^2 \cdot n \cdot o^2 \cdot p^2 + \sqrt{W} \cdot \sqrt{n} \cdot p \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}} = 0$$



$N_1 = 2.09922$
 $N_2 = 1.50839$
 $N_3 = 1.17412$
 $N_4 = 0.92961$
 $R = 0.25025$

Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := 1.17412$ $N_4 := .92961$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

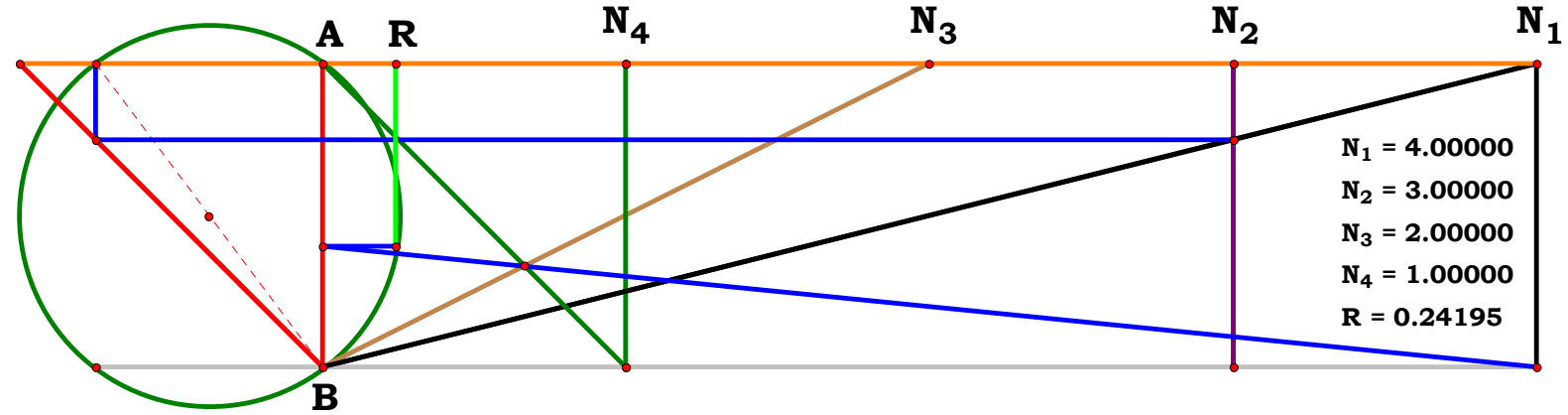
$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := GK - AF \quad R = 0.250248$$

Definitions.



$N_1 = 4.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $N_4 = 1.00000$
 $R = 0.24195$

$$\frac{\sqrt{(N_2 \cdot N_3 \cdot (N_1 - N_4))^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + (N_1 \cdot N_2 \cdot N_4)^2 - N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}}{2 \cdot N_1 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)} - R = 0.00000$$

$$R - \frac{\sqrt{AC^2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2 + 4 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)} - AC \cdot \sqrt{N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_3 \cdot N_1 \cdot N_4 \cdot (N_1 - N_4) + N_1^2 \cdot N_4^2}}{2 \cdot \sqrt{N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_3 \cdot N_1 \cdot N_4 \cdot (N_1 - N_4) + N_1^2 \cdot N_4^2}} = 0$$

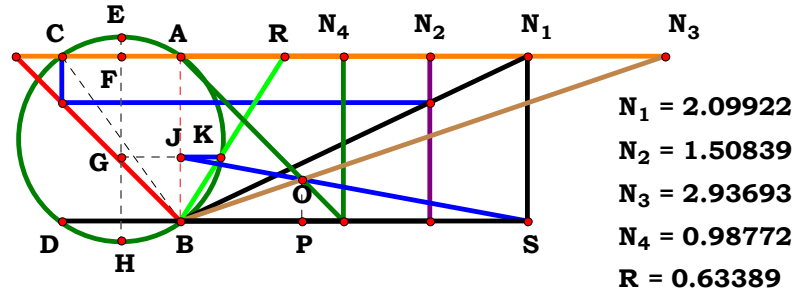
$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2} - N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{2 \cdot B \cdot (A - C - D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{X^2 \cdot m^2 \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)^2 + 4 \cdot W^3 \cdot Y \cdot Z \cdot n^2 \cdot o \cdot (W \cdot p - Z \cdot m)} - X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}{2 \cdot W \cdot n \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$



Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS} \quad GH := BJ + EF$$

$$EG := EH - GH \quad GK := \sqrt{EG \cdot GH} \quad R := \frac{GK - AF}{BJ}$$

$$R = 0.633886$$

Definitions.

$$R - \frac{\left[\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2} \cdot N_1 - N_2 \cdot \sqrt{N_1^2} \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2} \right] \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1^2 \cdot N_4 \cdot \sqrt{N_1^2} \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2}} = 0$$

$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2} - N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1^2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (A - C - D) + \sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)}}{2 \cdot B \cdot C} = 0$$

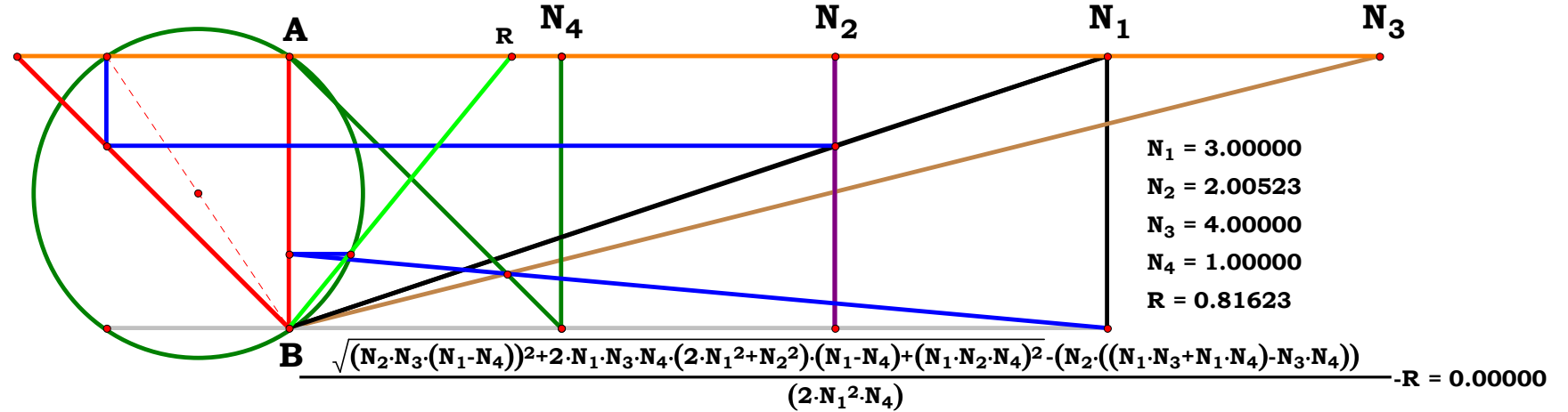
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot X^2 \cdot m^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (2 \cdot W^2 \cdot n^2 + X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot X^2 \cdot Z^2 \cdot m^2 \cdot o^2} - X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}{2 \cdot W^2 \cdot Z \cdot n \cdot o} = 0$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.09922 \quad N_2 := 1.50839 \quad N_3 := 2.93693 \quad N_4 := .98772$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



Definitions.

$$R - \frac{\left[\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2} \cdot N_1 - N_2 \cdot \sqrt{N_1^2} \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2} \right] \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1^2 \cdot N_4 \cdot \sqrt{N_1^2} \cdot \sqrt{(N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)^2}} = 0$$

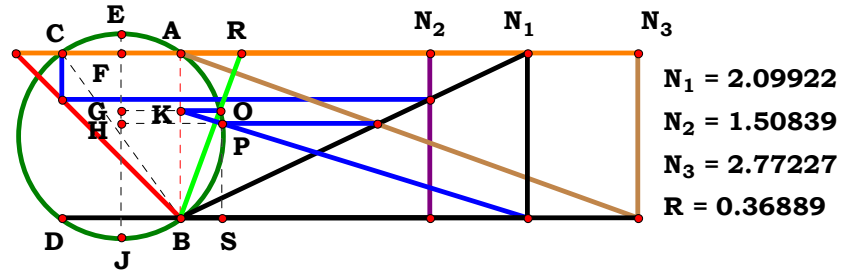
$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2} - N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{2 \cdot N_1^2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (A - C - D) + \sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)}}{2 \cdot B \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot X^2 \cdot m^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (2 \cdot W^2 \cdot n^2 + X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot X^2 \cdot Z^2 \cdot m^2 \cdot o^2} - X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}{2 \cdot W^2 \cdot Z \cdot n \cdot o} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := 2.77227$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

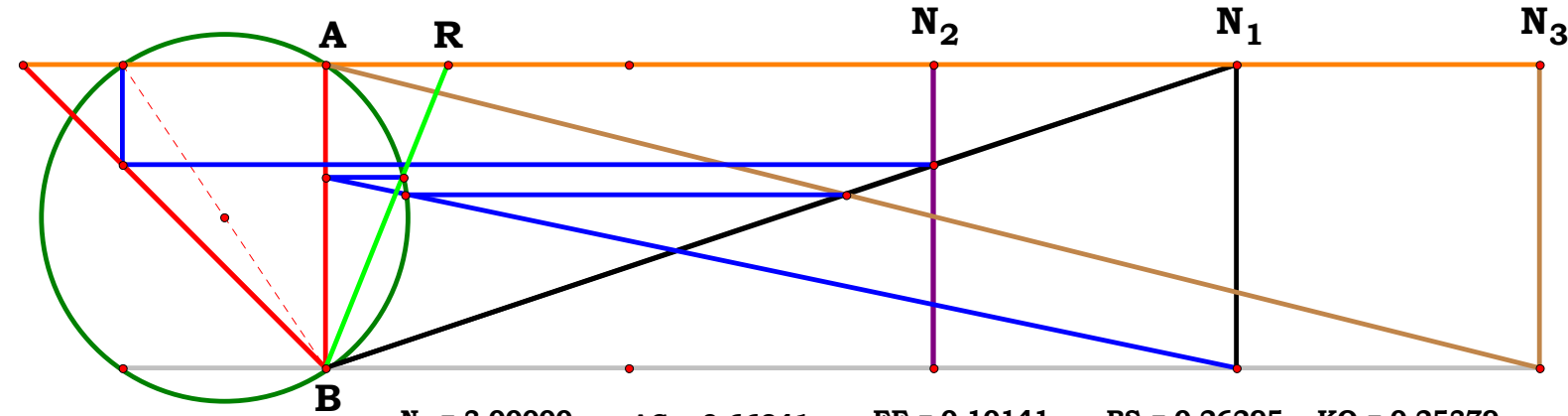
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.368893$$

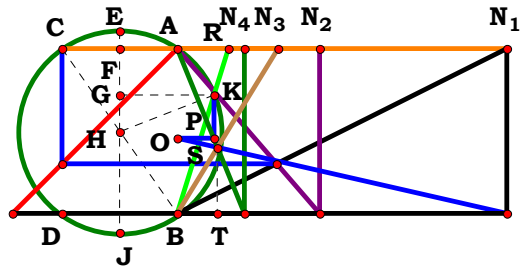


Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$N_1 = 1.99268$
 $N_2 = 0.85944$
 $N_3 = 0.61234$
 $N_4 = 0.40657$
 $R = 0.31026$

Unit. $AB := 1$ Given. $N_1 := 1.99268$ $N_2 := .85944$ $N_3 := .61234$ $N_4 := .40657$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad HK := \frac{EJ}{2} \quad ST := \frac{N_4}{N_4 + N_3}$$

$$BT := N_3 \cdot ST \quad TU := N_1 - BT$$

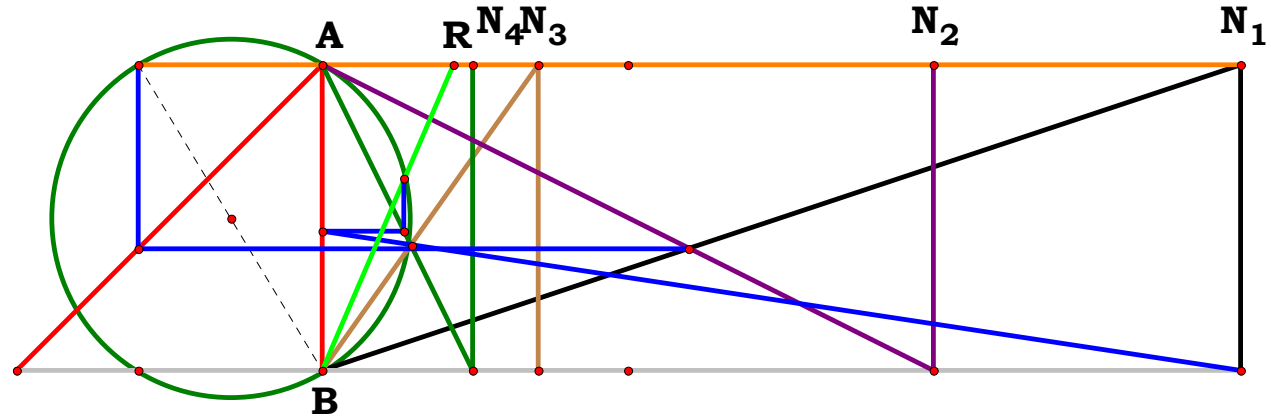
$$BO := \frac{ST \cdot N_1}{TU} \quad OP := N_4 - N_4 \cdot BO$$

$$GK := AF + OP \quad GH := \sqrt{HK^2 - GK^2}$$

$$EG := HK - GH \quad GJ := EJ - EG$$

$$R := \frac{OP}{GJ - EF} \quad R = 0.310256$$

$N_1 = 3.00000$ $N_4 = 0.49279$
 $N_2 = 2.00000$ $R = 0.42747$
 $N_3 = 0.70718$



$$\frac{2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot \sqrt{(N_1 + N_2)}}{\sqrt{((N_3^2 \cdot (N_1 - N_4)^2 \cdot ((N_1 + N_2) - 4 \cdot N_4 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4))) - (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (2 \cdot N_1 \cdot N_4 - N_2 - N_1)) + (N_1^2 \cdot N_4^2 \cdot (N_1 + N_2)) + ((N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4) \cdot \sqrt{(N_1 + N_2))}})} - R = 0.00000$$

Definitions.

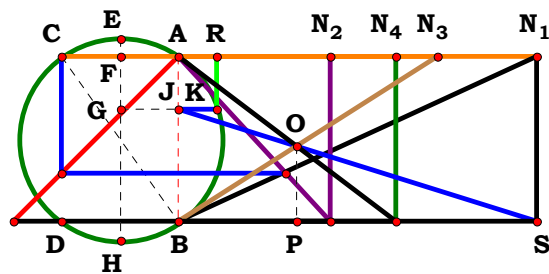
$$R - \frac{2 \cdot N_3 \cdot N_4 \cdot \sqrt{N_1 + N_2} \cdot (N_1 - N_4)}{\sqrt{N_3^2 \cdot (N_1 - N_4)^2 \cdot [N_1 + N_2 - 4 \cdot N_4 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4)] - 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (2 \cdot N_1 \cdot N_4 - N_2 - N_1) + N_1^2 \cdot N_4^2 \cdot (N_1 + N_2) + \sqrt{N_1 + N_2} \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (A - D)}{\sqrt{N_u \cdot (A + B) \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot [D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot B \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]}}} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot Y \cdot Z \cdot \sqrt{W \cdot n + X \cdot m} \cdot (W \cdot p - Z \cdot m) \cdot \sqrt{m} \cdot \sqrt{n}}{\sqrt{W^2 \cdot Z^2 \cdot o^2 \cdot p^2 \cdot (W \cdot n + X \cdot m) - Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot \left(4 \cdot W \cdot Z^2 \cdot n + 4 \cdot X \cdot Z^2 \cdot m \dots \right.}} = 0$$



$N_1 = 2.16702$
 $N_2 = 0.91756$
 $N_3 = 1.57123$
 $N_4 = 1.31704$
 $R = 0.23230$

Unit. $AB := 1$ Given. $N_1 := 2.16702$ $N_2 := .91756$ $N_3 := 1.57123$ $N_4 := 1.31704$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

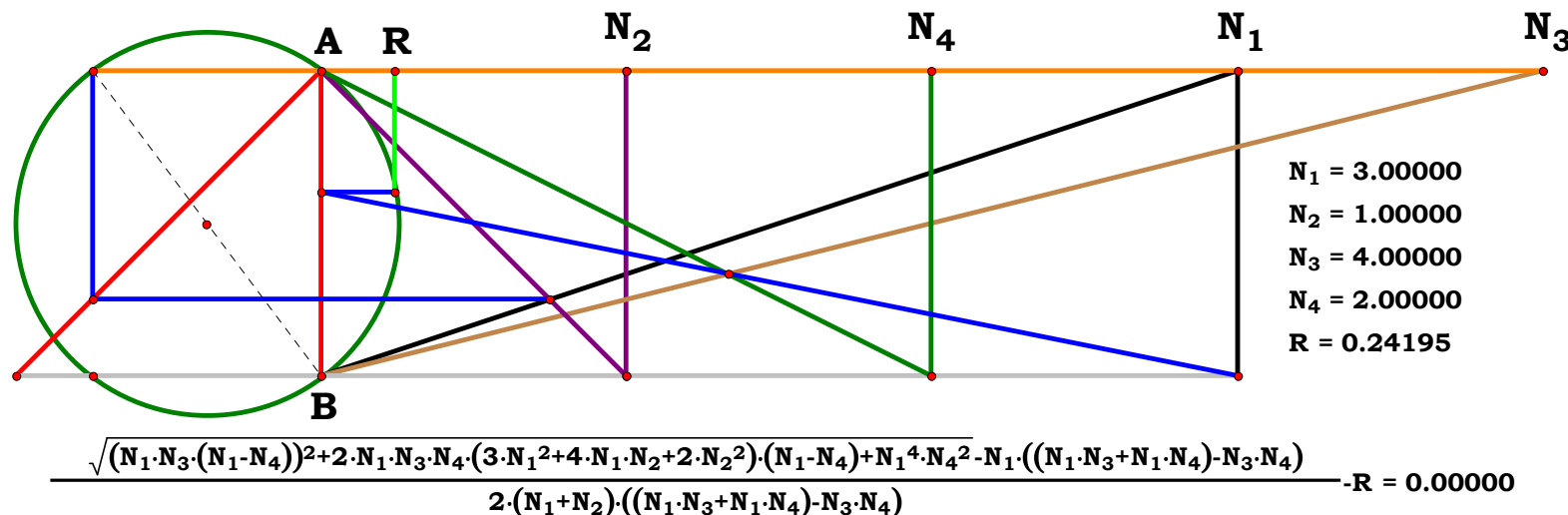
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := GK - AF \quad R = 0.232295$$



Definitions.

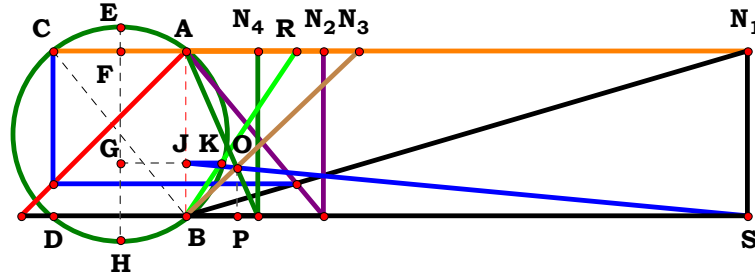
$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^4 \cdot N_4^2 - N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{(A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot W^2 \cdot n^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (3 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 2 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^4 \cdot Z^2 \cdot n^2 \cdot o^2}}{(2 \cdot W \cdot n + 2 \cdot X \cdot m) \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} - W \cdot n \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m) = 0$$



$N_1 = 3.39712$
 $N_2 = 0.83038$
 $N_3 = 1.04820$
 $N_4 = 0.43563$
 $R = 0.66502$

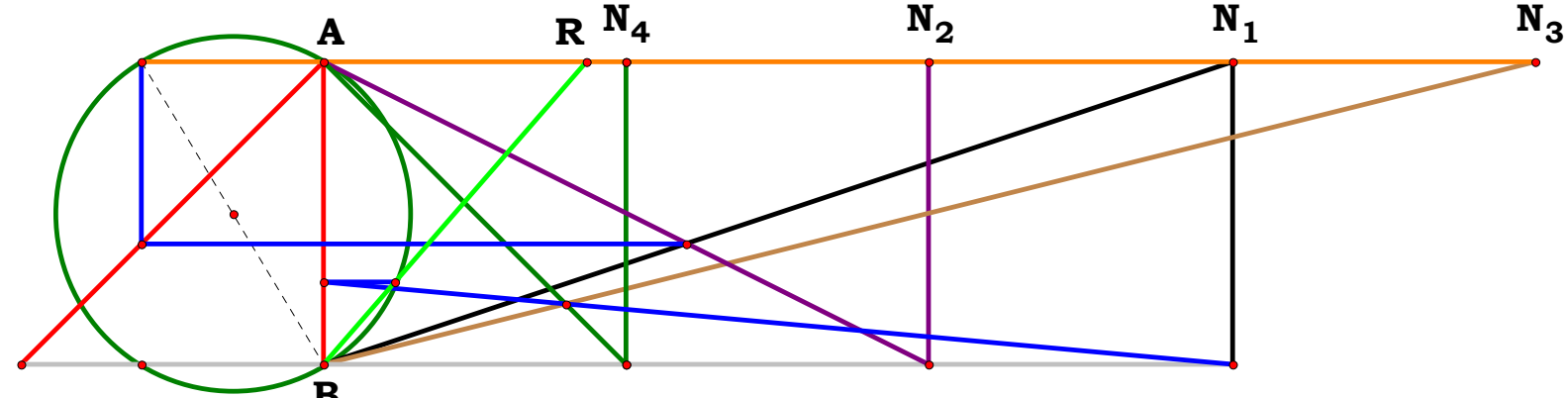
Unit. $AB := 1$ Given. $N_1 := 3.39712$ $N_2 := .83038$ $N_3 := 1.04820$ $N_4 := .43563$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$ $m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$\begin{aligned}
 AC &:= \frac{N_1}{N_1 + N_2} & EH &:= \sqrt{AB^2 + AC^2} & AF &:= \frac{AC}{2} \\
 EF &:= \frac{EH - AB}{2} & OP &:= \frac{N_4}{N_3 + N_4} & BP &:= N_3 \cdot OP \\
 PS &:= N_1 - BP & BJ &:= \frac{OP \cdot N_1}{PS} & GH &:= BJ + EF \\
 EG &:= EH - GH & GK &:= \sqrt{EG \cdot GH} \\
 R &:= \frac{GK - AF}{BJ} & R &= 0.665024
 \end{aligned}$$



$N_1 = 3.00000$ $N_4 = 1.00000$
 $N_2 = 2.00000$ $R = 0.86893$
 $N_3 = 4.00000$

$$\frac{\sqrt{(N_1 \cdot N_3 \cdot (N_1 - N_4))^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^4 \cdot N_4^2 - N_1 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}}{2 \cdot (N_1 + N_2) \cdot N_1 \cdot N_4} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^4 \cdot N_4^2 - N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot (N_1 + N_2) \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{2 \cdot C \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot W^2 \cdot n^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (3 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 2 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^4 \cdot Z^2 \cdot n^2 \cdot o^2 - W \cdot n \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}}{2 \cdot W \cdot Z \cdot o \cdot (W \cdot n + X \cdot m)} = 0$$



4RST8AB3R4

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad HJ := \frac{N_3}{N_1 + N_3}$$

$$BJ := N_1 \cdot HJ \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{HJ \cdot N_1}{N_1 - BJ} \quad R := \frac{BE \cdot BG}{BE - FG}$$

$$R = 0.403719$$

Definitions.

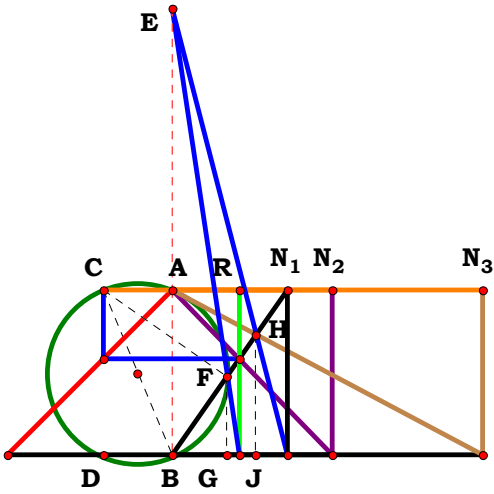
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_1^2 + N_2)}{N_3 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) - N_1 \cdot (N_1 - N_1^2 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 + B \cdot A - B \cdot N_u)}{(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X \cdot Z \cdot (p \cdot X \cdot o - p \cdot X^2 + Y \cdot o^2)}{Z \cdot (X^2 + o^2) \cdot (X \cdot p + Y \cdot o) + X \cdot q \cdot (p \cdot X^2 - p \cdot X \cdot o - Y \cdot o^2)} = 0$$

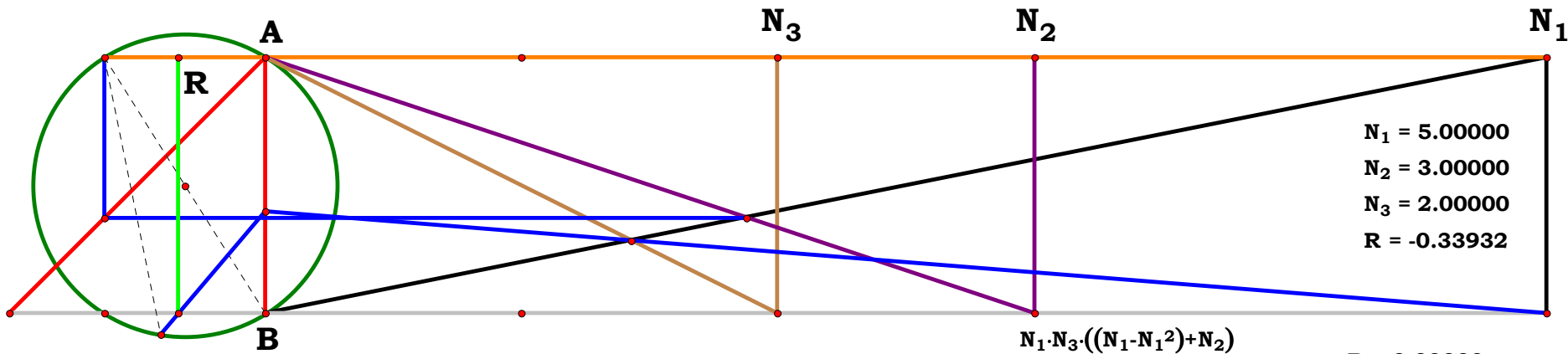


$N_1 = 0.69478$
 $N_2 = 0.96599$
 $N_3 = 1.88118$
 $R = 0.40372$

Unit. $AB := 1$ Given. $N_1 := .69478$ $N_2 := .96599$ $N_3 := 1.88118$

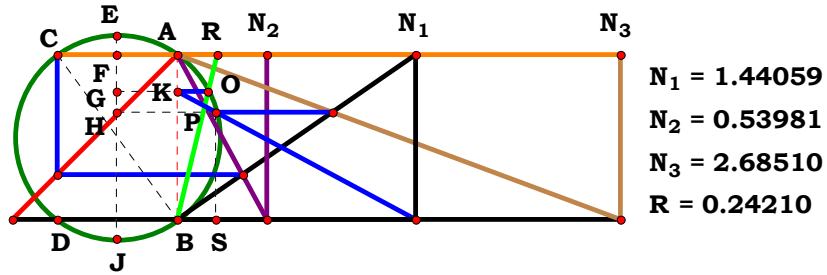
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$N_1 = 5.00000$
 $N_2 = 3.00000$
 $N_3 = 2.00000$
 $R = -0.33932$

$$\frac{N_1 \cdot N_3 \cdot ((N_1 - N_1^2) + N_2)}{N_3 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) - N_1 \cdot ((N_1 - N_1^2) + N_2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := .53981$ $N_3 := 2.68510$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

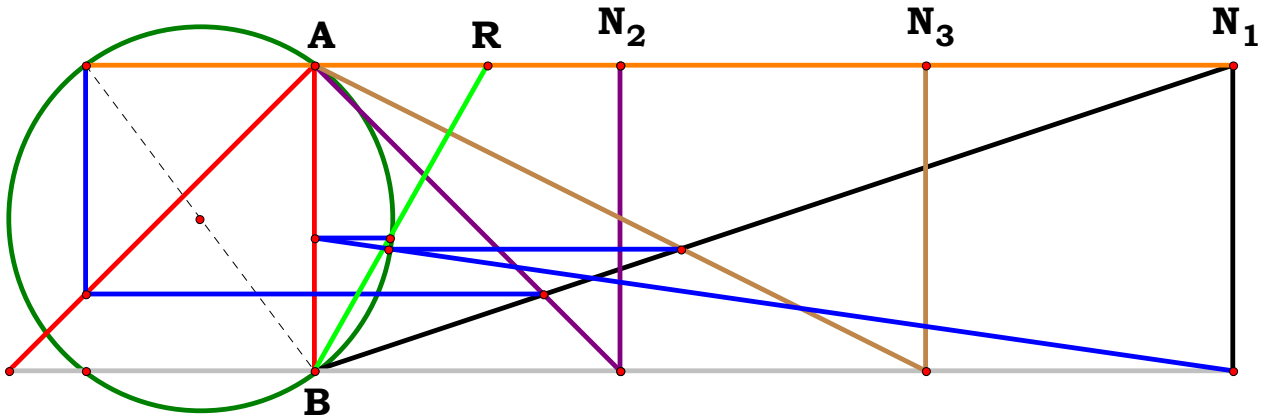
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.242104$$



Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$$\mathbf{AC} - \frac{\mathbf{N_1}}{\mathbf{N_1 + N_2}} = \mathbf{0} \quad \mathbf{EJ} - \frac{\sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2}}{(\mathbf{N_1 + N_2})} = \mathbf{0} \quad \mathbf{AF} - \frac{\mathbf{N_1}}{2 \cdot (\mathbf{N_1 + N_2})} = \mathbf{0}$$

$$\mathbf{EF} - \frac{\sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2} - \mathbf{N_2} - \mathbf{N_1}}{2 \cdot (\mathbf{N_1 + N_2})} = \mathbf{0} \quad \mathbf{PS} - \frac{\mathbf{N_3}}{\mathbf{N_1 + N_3}} = \mathbf{0}$$

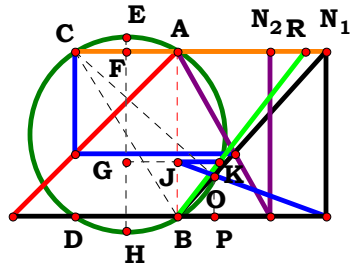
$$\mathbf{HJ} - \frac{(\mathbf{N_1 + N_3}) \cdot \sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2} - (\mathbf{N_1 - N_3}) \cdot (\mathbf{N_1 + N_2})}{2 \cdot (\mathbf{N_1 + N_2}) \cdot (\mathbf{N_1 + N_3})} = \mathbf{0}$$

$$\mathbf{HP} - \frac{\sqrt{\mathbf{N_1}^4 + 6 \cdot \mathbf{N_1}^3 \cdot \mathbf{N_3} + 8 \cdot \mathbf{N_1}^2 \cdot \mathbf{N_2} \cdot \mathbf{N_3} + \mathbf{N_1}^2 \cdot \mathbf{N_3}^2 + 4 \cdot \mathbf{N_1} \cdot \mathbf{N_2}^2 \cdot \mathbf{N_3}}}{\sqrt{4 \cdot (\mathbf{N_1}^4 + 2 \cdot \mathbf{N_1}^3 \cdot \mathbf{N_2} + 2 \cdot \mathbf{N_1}^3 \cdot \mathbf{N_3} + \mathbf{N_1}^2 \cdot \mathbf{N_2}^2 + 4 \cdot \mathbf{N_1}^2 \cdot \mathbf{N_2} \cdot \mathbf{N_3} + \mathbf{N_1}^2 \cdot \mathbf{N_3}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2}^2 \cdot \mathbf{N_3} + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}^2 + \mathbf{N_2}^2 \cdot \mathbf{N_3}^2)}} = \mathbf{0}$$

$$\mathbf{BS} - (\mathbf{HP} - \mathbf{AF}) = \mathbf{0} \quad \mathbf{BK} - \frac{\mathbf{PS} \cdot \mathbf{N_1}}{\mathbf{N_1 - BS}} = \mathbf{0}$$

$$\mathbf{GJ} - (\mathbf{BK} + \mathbf{EF}) = \mathbf{0} \quad \mathbf{GO} - \sqrt{\mathbf{GJ} \cdot (\mathbf{EJ} - \mathbf{GJ})} = \mathbf{0} \quad \mathbf{KO} - (\mathbf{GO} - \mathbf{AF}) = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{KO}}{\mathbf{BK}} = \mathbf{0}$$



$$\begin{aligned} N_1 &= 0.89818 \\ N_2 &= 0.55918 \\ R &= 0.77237 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .89818 \quad N_2 := .55918$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

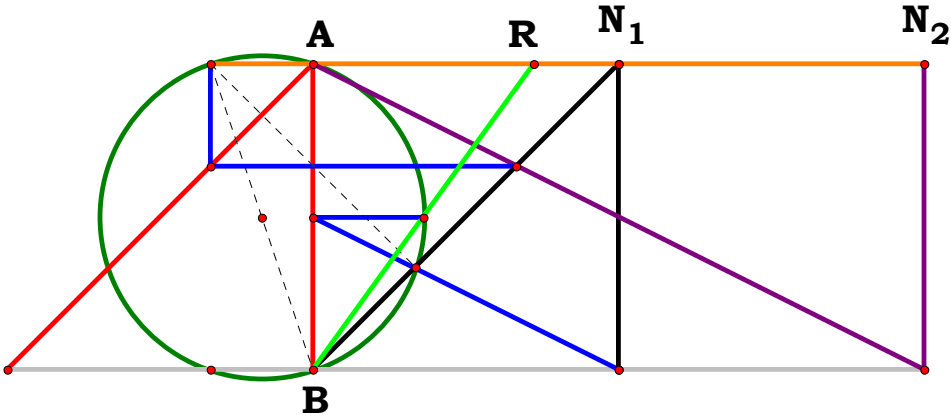
Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BO := BN_1 - ON_1 \quad BP := \frac{N_1 \cdot BO}{BN_1}$$

$$OP := \frac{BP}{N_1} \quad BJ := \frac{OP \cdot N_1}{N_1 - BP} \quad GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$JK := GK - AF \quad R := \frac{JK}{BJ} \quad R = 0.772363$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 2.00000 \\ R &= 0.72076 \end{aligned}$$

$$\frac{(N_1^3 \cdot N_2 + N_1^3 + N_1^4) - \sqrt{(((N_1^8 + (2 \cdot N_1^5 \cdot (N_2 - 1) \cdot (N_1^2 - 6 \cdot N_2 - 6)) + (N_1^6 \cdot (N_2^2 - 10 \cdot N_2 - 3))) - (4 \cdot N_1^4 \cdot ((N_2^3 - 4 \cdot N_2^2 - 9 \cdot N_2) + 1))) + (4 \cdot N_1^3 \cdot N_2 \cdot ((4 \cdot N_2^2 + 9 \cdot N_2) - 4)) + (4 \cdot N_1^2 \cdot N_2^2 \cdot ((N_2^2 + 3 \cdot N_2) - 6))) - (4 \cdot N_2^3 \cdot (4 \cdot N_1 + N_2)))}}{2 \cdot (N_1 + N_2) \cdot (N_1^2 - N_1 - N_2)} - R = 0.00000$$

Definitions.

$$R - \frac{N_1^3 \cdot N_2 + N_1^3 + N_1^4 - \sqrt{N_1^8 + 2 \cdot N_1^5 \cdot (N_2 - 1) \cdot (N_1^2 - 6 \cdot N_2 - 6) + N_1^6 \cdot (N_2^2 - 10 \cdot N_2 - 3) \dots + -4 \cdot N_1^4 \cdot (N_2^3 - 4 \cdot N_2^2 - 9 \cdot N_2 + 1) + 4 \cdot N_1^3 \cdot N_2 \cdot (4 \cdot N_2^2 + 9 \cdot N_2 - 4) \dots + 4 \cdot N_1^2 \cdot N_2^2 \cdot (N_2^2 + 3 \cdot N_2 - 6) - 4 \cdot N_2^3 \cdot (4 \cdot N_1 + N_2)}}{2 \cdot (N_1 + N_2) \cdot (N_1^2 - N_1 - N_2)} = 0$$

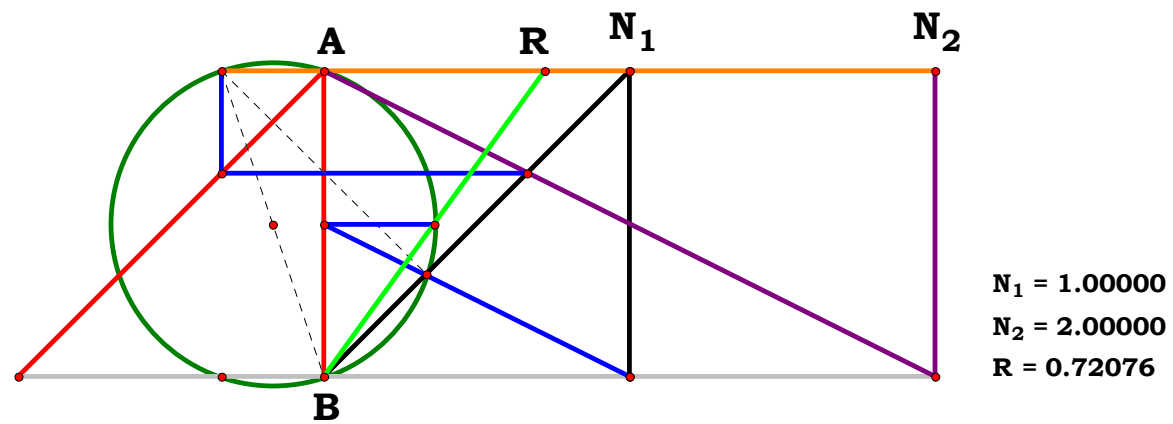
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{\sqrt{N_u^4 \cdot B^2 \cdot (A + B)^2 - 2 \cdot N_u^3 \cdot A \cdot B \cdot (A + B) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2) \dots + N_u^2 \cdot A^2 \cdot (2 \cdot A^2 + 2 \cdot A \cdot B - B^2) \cdot (2 \cdot A^2 + 6 \cdot A \cdot B + 3 \cdot B^2) + 12 \cdot N_u \cdot A^3 \cdot B \cdot (A + B)^3 - 4 \cdot A^4 \cdot (A + B)^4}}{2 \cdot A \cdot (A + B) \cdot (A^2 + B \cdot A - B \cdot N_u)} - B \cdot N_u \cdot [A \cdot B + N_u \cdot (A + B)] = 0$$

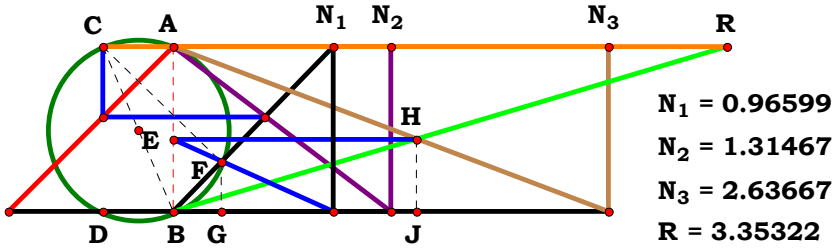


$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\mathbf{Y}^3 \cdot \mathbf{q} \cdot (\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p} + \mathbf{p} \cdot \mathbf{q}) - \sqrt{\mathbf{q}^4 \cdot \mathbf{Y}^8 + 2 \cdot \mathbf{Y}^7 \cdot \mathbf{p} \cdot \mathbf{q}^3 \cdot (\mathbf{Z} - \mathbf{q}) + \mathbf{Y}^6 \cdot \mathbf{p}^2 \cdot \mathbf{q}^2 \cdot (\mathbf{Z}^2 - 10 \cdot \mathbf{Z} \cdot \mathbf{q} - 3 \cdot \mathbf{q}^2) \dots} \\ + -12 \cdot \mathbf{Y}^5 \cdot \mathbf{p}^3 \cdot \mathbf{q}^2 \cdot (\mathbf{Z} - \mathbf{q}) \cdot (\mathbf{Z} + \mathbf{q}) + -4 \cdot \mathbf{Y}^4 \cdot \mathbf{p}^4 \cdot \mathbf{q} \cdot (\mathbf{Z}^3 - 4 \cdot \mathbf{Z}^2 \cdot \mathbf{q} - 9 \cdot \mathbf{Z} \cdot \mathbf{q}^2 + \mathbf{q}^3) \dots \\ + 4 \cdot \mathbf{Y}^3 \cdot \mathbf{Z} \cdot \mathbf{p}^5 \cdot \mathbf{q} \cdot (4 \cdot \mathbf{Z}^2 + 9 \cdot \mathbf{Z} \cdot \mathbf{q} - 4 \cdot \mathbf{q}^2) + 4 \cdot \mathbf{Y}^2 \cdot \mathbf{Z}^2 \cdot \mathbf{p}^6 \cdot (\mathbf{Z}^2 + 3 \cdot \mathbf{Z} \cdot \mathbf{q} - 6 \cdot \mathbf{q}^2) - 4 \cdot \mathbf{Z}^3 \cdot \mathbf{p}^7 \cdot (4 \cdot \mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p})}{2 \cdot \mathbf{p} \cdot (\mathbf{Y} \cdot \mathbf{q} + \mathbf{Z} \cdot \mathbf{p}) \cdot (\mathbf{q} \cdot \mathbf{Y}^2 - \mathbf{q} \cdot \mathbf{Y} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{p}^2)} = 0$$



$$\frac{(N_1^3 \cdot N_2 + N_1^3 + N_1^4) - \sqrt{(((N_1^8 + (2 \cdot N_1^5 \cdot (N_2 - 1) \cdot (N_1^2 - 6 \cdot N_2 - 6)) + (N_1^6 \cdot (N_2^2 - 10 \cdot N_2 - 3)))) - (4 \cdot N_1^4 \cdot ((N_2^3 - 4 \cdot N_2^2 - 9 \cdot N_2) + 1))) + (4 \cdot N_1^3 \cdot N_2 \cdot ((4 \cdot N_2^2 + 9 \cdot N_2) - 4)) + (4 \cdot N_1^2 \cdot N_2^2 \cdot ((N_2^2 + 3 \cdot N_2) - 6))) - (4 \cdot N_2^3 \cdot (4 \cdot N_1 + N_2))}}{2 \cdot (N_1 + N_2) \cdot (N_1^2 - N_1 \cdot N_2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .96599$ $N_2 := 1.31467$ $N_3 := 2.63667$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1} \quad BE := \frac{FG \cdot N_1}{N_1 - BG}$$

$$BJ := N_3 \cdot (AB - BE) \quad R := \frac{BJ}{BE}$$

$$R = 3.353318$$

Definitions.

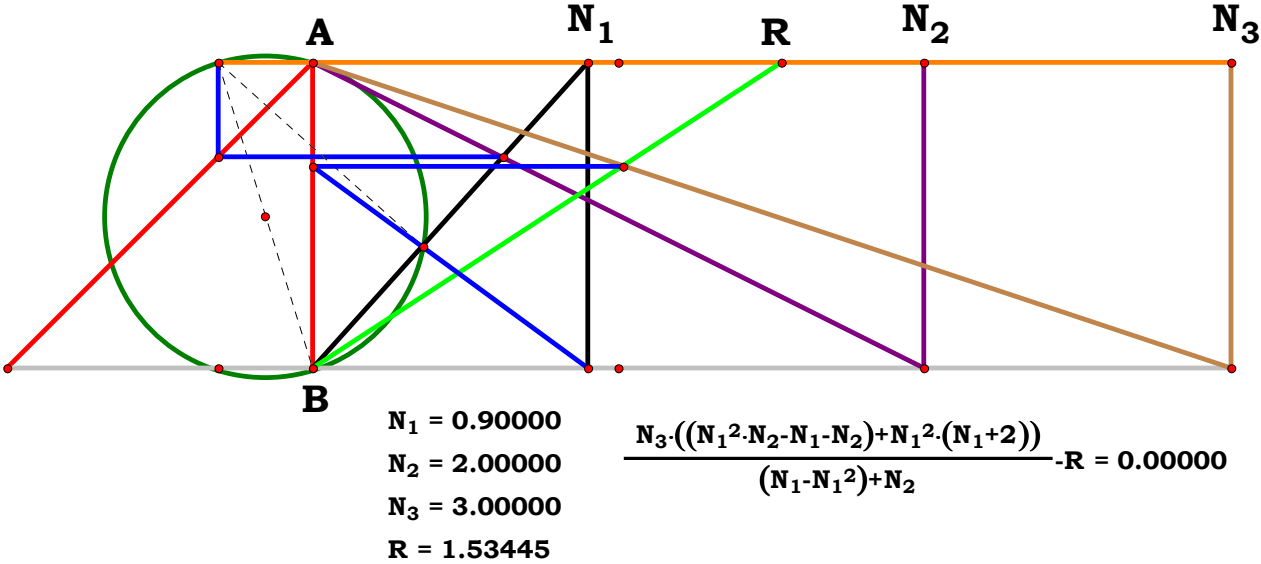
$$R - \frac{N_3 \cdot \left[N_1^2 \cdot N_2 - N_1 - N_2 + N_1^2 \cdot (N_1 + 2) \right]}{N_1 - N_1^2 + N_2} = 0$$

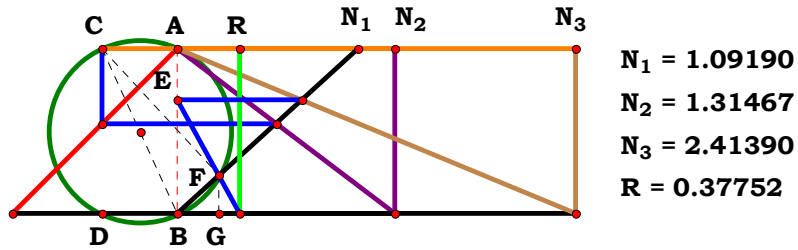
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot \left[A \cdot (N_u^2 - B \cdot A - A^2) + B \cdot N_u \cdot (2 \cdot A + N_u) \right]}{A \cdot C \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X^3 \cdot p - Y \cdot o^3 + X^2 \cdot Y \cdot o - X \cdot o^2 \cdot p + 2 \cdot X^2 \cdot o \cdot p)}{o \cdot q \cdot (p \cdot X \cdot o - p \cdot X^2 + Y \cdot o^2)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.09190$ $N_2 := 1.31467$ $N_3 := 2.41390$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BE := \frac{N_3}{N_1 + N_3}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$FG := \frac{BG}{N_1} \quad R := \frac{BG \cdot BE}{BE - FG} \quad R = 0.37752$$

Definitions.

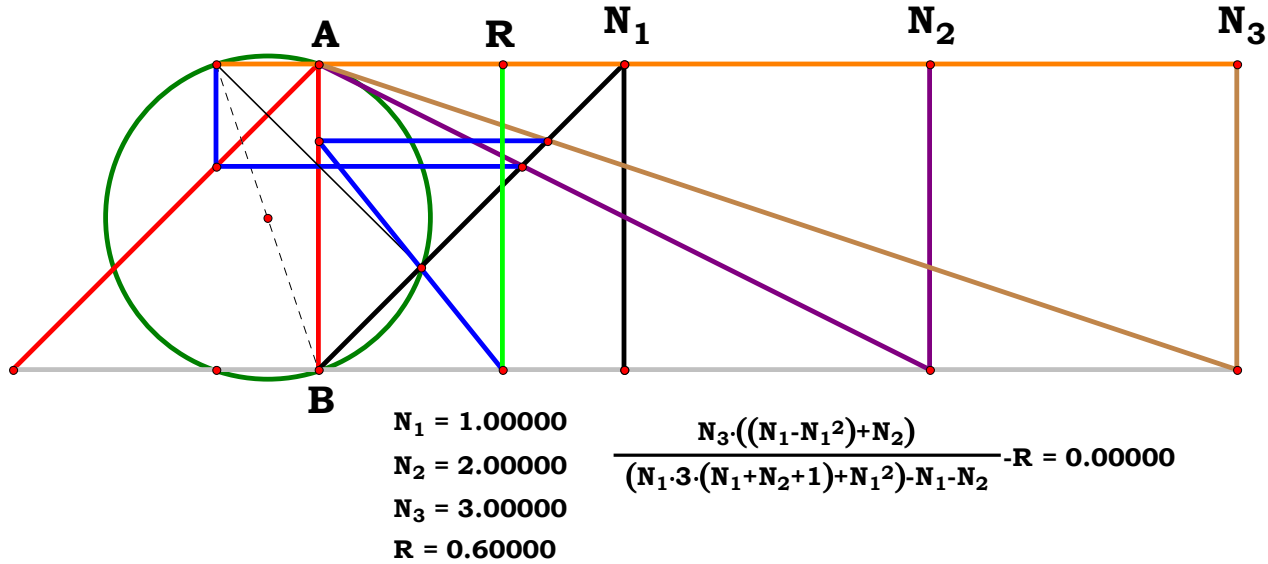
$$R - \frac{N_3 \cdot (N_1 - N_1^2 + N_2)}{N_1 \cdot N_3 \cdot (N_1 + N_2 + 1) + N_1^2 - N_1 - N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot [A^2 + B \cdot (A - N_u)]}{N_u^2 \cdot (A + B) + N_u \cdot B \cdot (A + C) - A \cdot C \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (p \cdot X \cdot o - p \cdot X^2 + Y \cdot o^2)}{Y \cdot o \cdot (X \cdot Z - o \cdot q) + X \cdot p \cdot (X \cdot Z + X \cdot q + Z \cdot o - o \cdot q)} = 0$$





4RST8AB3R9

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad R := \frac{N_2}{BE}$$

R = 3.617938

Definitions.

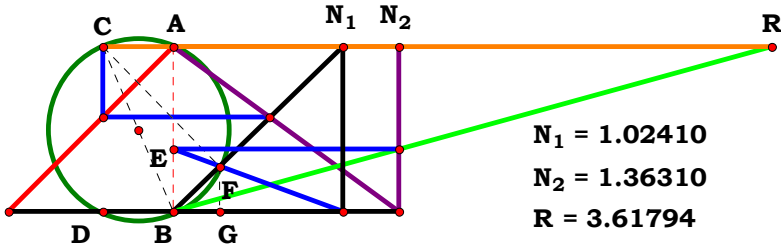
$$R - \frac{N_1^2 \cdot N_2 \cdot (N_1 + N_2 + 1)}{N_1 - N_1^2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2 \cdot [A \cdot B + N_u \cdot (A + B)]}{A \cdot B \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$

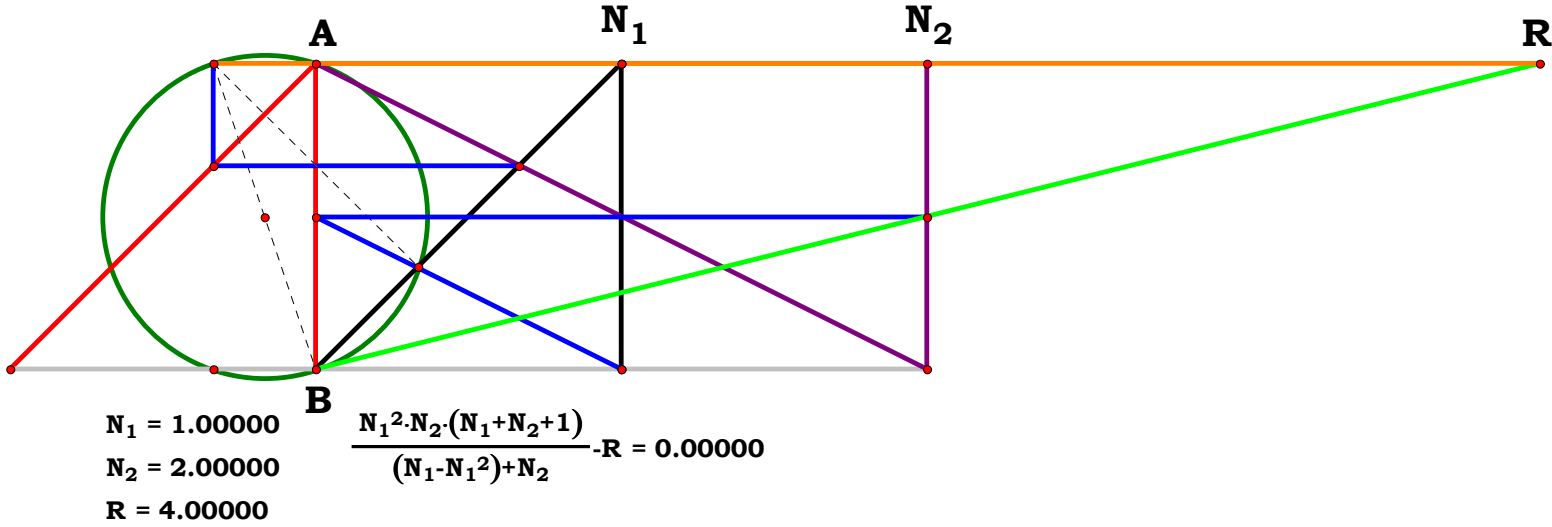
$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

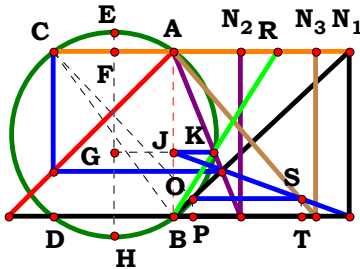
$$R - \frac{Y^2 \cdot Z \cdot (Y \cdot q + Z \cdot p + p \cdot q)}{p \cdot q \cdot (q \cdot Y \cdot p - q \cdot Y^2 + Z \cdot p^2)} = 0$$



Unit. AB := 1 Given. N₁ := 1.02410 N₂ := 1.36310

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ Y := 20 Z := 19 p := $\frac{Y}{N_1}$ q := $\frac{Z}{N_2}$





$N_1 = 1.06284$
 $N_2 = 0.40421$
 $N_3 = 0.86417$
 $R = 0.62545$

Unit. $AB := 1$ Given. $N_1 := 1.06284$ $N_2 := .40421$ $N_3 := .86417$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BO := BN_1 - ON_1 \quad BP := \frac{N_1 \cdot BO}{BN_1}$$

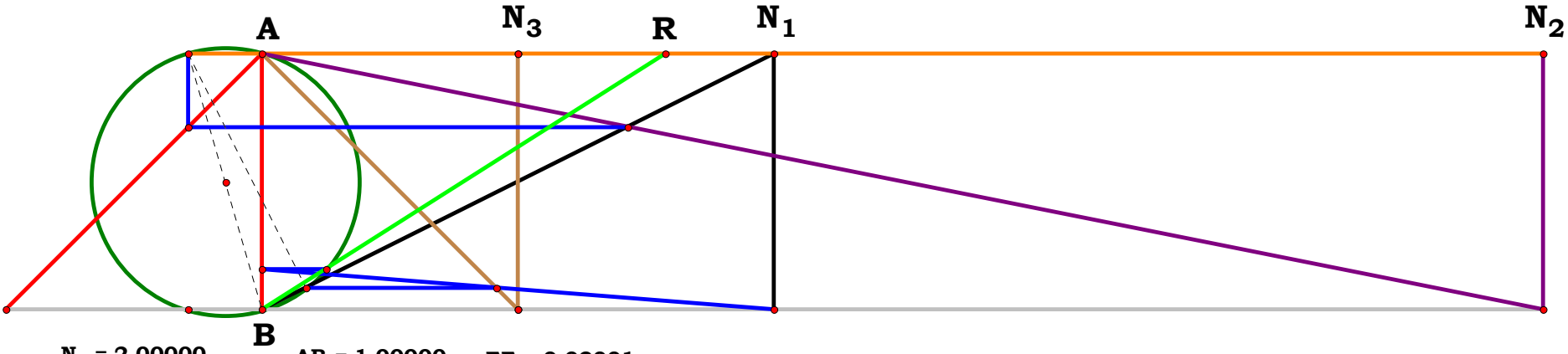
$$OP := \frac{BP}{N_1} \quad BT := N_3 \cdot (AB - OP)$$

$$BJ := \frac{OP \cdot N_1}{N_1 - BT} \quad GH := BJ + EF$$

$$GK := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GK - AF}{BJ}$$

$$R = 0.625446$$

Definitions.



$N_1 = 2.00000$	$AB = 1.00000$	$EF = 0.02001$	$BP = 0.17143$	$GH = 0.17790$
$N_2 = 5.00000$	$AC = 0.28571$	$BN_1 = 2.23607$	$OP = 0.08571$	$GK = 0.39163$
$N_3 = 1.00000$	$EH = 1.04002$	$ON_1 = 2.04441$	$BT = 0.91429$	$R - \frac{GK - AF}{BJ} = 0.00000$
$R = 1.57555$	$AF = 0.14286$	$BO = 0.19166$	$BJ = 0.15789$	



$$\mathbf{AC} - \frac{\mathbf{N_1}}{\mathbf{N_1 + N_2}} = 0 \quad \mathbf{EH} - \frac{\sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2}}{(\mathbf{N_1 + N_2})} = 0 \quad \mathbf{AF} - \frac{\mathbf{N_1}}{2 \cdot (\mathbf{N_1 + N_2})} = 0$$

$$\mathbf{EF} - \frac{\left(\sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2} - \mathbf{N_2} - \mathbf{N_1}\right)}{2 \cdot (\mathbf{N_1 + N_2})} = 0 \quad \mathbf{BN_1} - \sqrt{\mathbf{N_1}^2 + 1} = 0$$

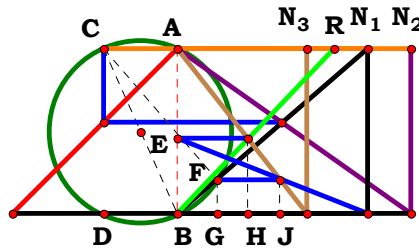
$$\mathbf{ON_1} - \frac{\mathbf{N_1}^2 \cdot (\mathbf{N_1 + N_2} + 1)}{(\mathbf{N_1 + N_2}) \cdot \sqrt{\mathbf{N_1}^2 + 1}} = 0 \quad \mathbf{BO} - \frac{\mathbf{N_1} - \mathbf{N_1}^2 + \mathbf{N_2}}{(\mathbf{N_1 + N_2}) \cdot \sqrt{\mathbf{N_1}^2 + 1}} = 0 \quad \mathbf{BP} - \frac{\mathbf{N_1} \cdot (\mathbf{N_1} - \mathbf{N_1}^2 + \mathbf{N_2})}{(\mathbf{N_1 + N_2}) \cdot (\mathbf{N_1}^2 + 1)} = 0$$

$$\mathbf{OP} - \frac{\mathbf{N_1} - \mathbf{N_1}^2 + \mathbf{N_2}}{(\mathbf{N_1 + N_2}) \cdot (\mathbf{N_1}^2 + 1)} = 0 \quad \mathbf{BT} - \frac{\mathbf{N_3} \cdot \mathbf{N_1}^2 \cdot (\mathbf{N_1 + N_2} + 1)}{(\mathbf{N_1}^2 + 1) \cdot (\mathbf{N_1 + N_2})} = 0$$

$$\mathbf{BJ} - \frac{\mathbf{N_1} - \mathbf{N_1}^2 + \mathbf{N_2}}{\mathbf{N_1 + N_2} + \mathbf{N_1}^2 \cdot \mathbf{N_2} - \mathbf{N_1}^2 \cdot \mathbf{N_3} + \mathbf{N_1}^3 - \mathbf{N_1} \cdot \mathbf{N_3} - \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}} = 0$$

$$\mathbf{GH} - \frac{\left(\mathbf{N_1 + N_2} + \mathbf{N_1}^2 \cdot \mathbf{N_2} - \mathbf{N_1}^2 \cdot \mathbf{N_3} + \mathbf{N_1}^3 - \mathbf{N_1} \cdot \mathbf{N_3} - \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}\right) \cdot \sqrt{2 \cdot \mathbf{N_1}^2 + 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2}^2} \dots + (\mathbf{N_1 + N_2}) \cdot \left(\mathbf{N_1 + N_2} - \mathbf{N_1}^2 \cdot \mathbf{N_2} + \mathbf{N_1}^2 \cdot \mathbf{N_3} - 2 \cdot \mathbf{N_1}^2 - \mathbf{N_1}^3 + \mathbf{N_1} \cdot \mathbf{N_3} + \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}\right)}{2 \cdot (\mathbf{N_1 + N_2}) \cdot \left(\mathbf{N_1 + N_2} + \mathbf{N_1}^2 \cdot \mathbf{N_2} - \mathbf{N_1}^2 \cdot \mathbf{N_3} + \mathbf{N_1}^3 - \mathbf{N_1} \cdot \mathbf{N_3} - \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}\right)} = 0$$

$$\mathbf{GK} - \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})} = 0 \quad \mathbf{R} - \frac{\mathbf{GK} - \mathbf{AF}}{\mathbf{BJ}} = 0$$



$N_1 = 1.15002$
 $N_2 = 1.41153$
 $N_3 = 0.78668$
 $R = 0.94487$

Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := 1.41153$ $N_3 := .78668$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BJ := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BJ}$$

$$BH := N_3 \cdot (AB - BE) \quad R := \frac{BH}{BE} \quad R = 0.944894$$

Definitions.

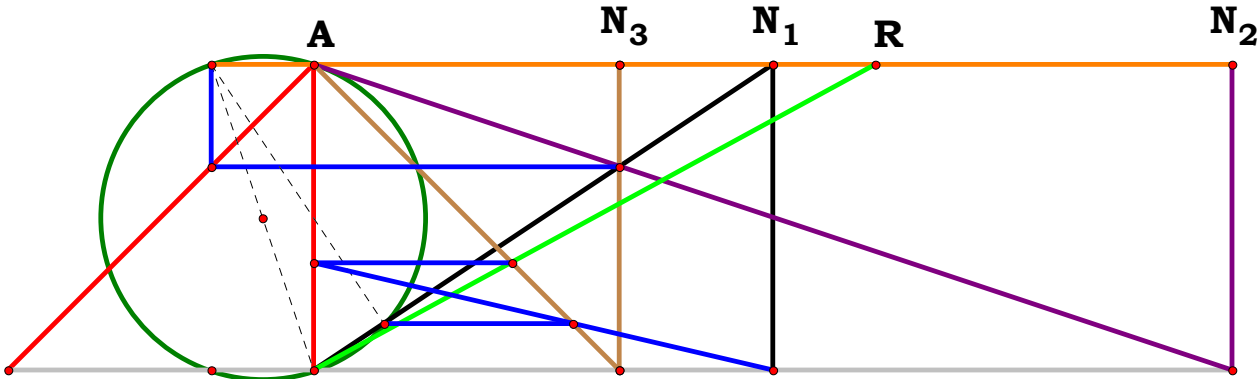
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 - N_3) \cdot (N_1 + N_2 + 1)}{N_1 - N_1^2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 \cdot (C - A) \cdot [A \cdot B + N_u \cdot (A + B)]}{A \cdot C^2 \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

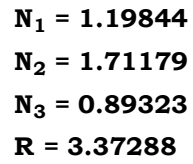
$$R - \frac{X \cdot Z \cdot (X \cdot q - Z \cdot o) \cdot (X \cdot p + Y \cdot o + o \cdot p)}{o \cdot q^2 \cdot (p \cdot X \cdot o - p \cdot X^2 + Y \cdot o^2)} = 0$$



$N_1 = 1.50000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $R = 1.83333$

$$\frac{N_1 \cdot N_3 \cdot (N_1 - N_3) \cdot (N_1 + N_2 + 1)}{(N_1 \cdot N_1^2) + N_2} - R = 0.00000$$

4RST8AB3R12


$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2}$$

$$\mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1} \quad \mathbf{FG} := \frac{\mathbf{BG}}{\mathbf{N}_1} \quad \mathbf{BH} := \mathbf{N}_3 \cdot (\mathbf{AB} - \mathbf{FG})$$

$$\text{BE} := \frac{\text{FG} \cdot \text{N}_1}{\text{N}_1 - \text{BH}} \quad \text{R} := \frac{\text{N}_2}{\text{BE}} \quad \text{R} = 3.372825$$

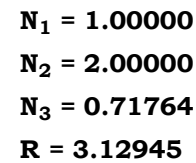
$$\mathbf{R} - \frac{\mathbf{N}_2 \cdot \left[\left(\mathbf{N}_1^2 + 1 \right) \cdot \left(\mathbf{N}_1 + \mathbf{N}_2 \right) - \mathbf{N}_1 \cdot \mathbf{N}_3 \cdot \left(\mathbf{N}_1 + \mathbf{N}_2 + 1 \right) \right]}{\mathbf{N}_1 - \mathbf{N}_1^2 + \mathbf{N}_2} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

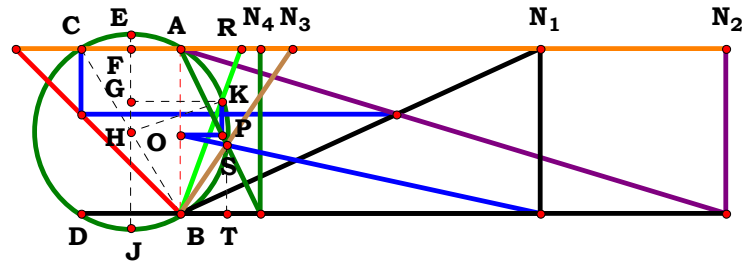
$$R - \frac{N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2}{A \cdot B \cdot C \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{q} \cdot (\mathbf{X}^2 + \mathbf{o}^2) \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) - \mathbf{Z} \cdot \mathbf{X} \cdot \mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o} + \mathbf{o} \cdot \mathbf{p})}{\mathbf{q} \cdot \mathbf{X} \cdot \mathbf{o}^2 \cdot \mathbf{p}^2 - \mathbf{q} \cdot \mathbf{X}^2 \cdot \mathbf{o} \cdot \mathbf{p}^2 + \mathbf{Y} \cdot \mathbf{q} \cdot \mathbf{o}^3 \cdot \mathbf{p}} = 0$$



$$\frac{N_2 \cdot ((N_1 + N_2) \cdot (N_1^2 + 1) - N_1 \cdot N_3 \cdot (N_1 + N_2 + 1))}{(N_1 - N_1^2) + N_2} \cdot R = 0.00000$$



$N_1 = 2.17671$
 $N_2 = 3.30026$
 $N_3 = 0.68014$
 $N_4 = 0.48406$
 $R = 0.36955$

Unit. $AB := 1$ Given. $N_1 := 2.17671$ $N_2 := 3.30026$ $N_3 := .68014$
 $N_4 := .48406$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$W := 20$ $X := 19$ $Y := 18$ $Z := 17$

$m := \frac{W}{N_1}$ $n := \frac{X}{N_2}$ $o := \frac{Y}{N_3}$ $p := \frac{Z}{N_4}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$EF := \frac{EJ - AB}{2} \quad AF := \frac{AC}{2}$$

$$HK := \frac{EJ}{2} \quad ST := \frac{N_4}{N_4 + N_3}$$

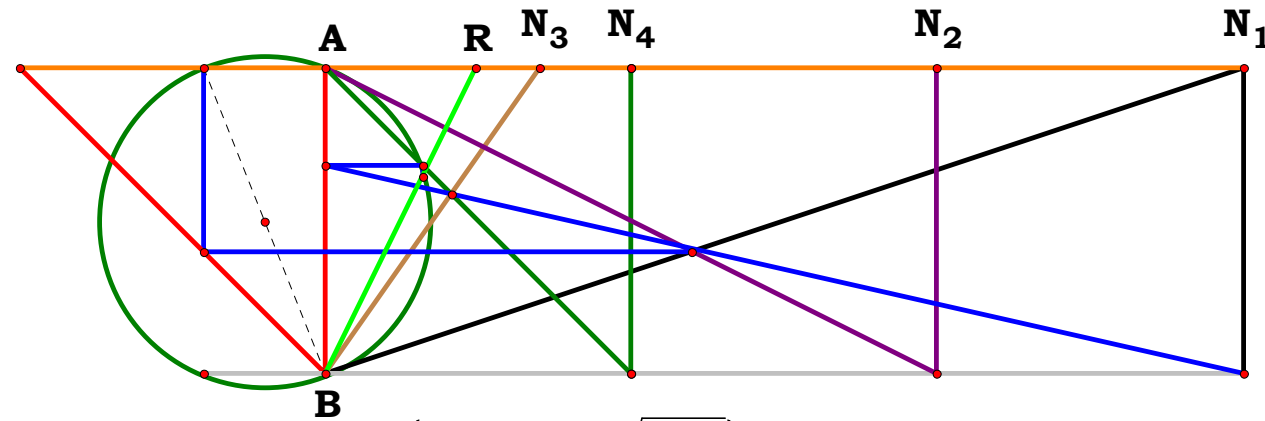
$$BT := N_3 \cdot ST \quad TU := N_1 - BT$$

$$BO := \frac{ST \cdot N_1}{TU} \quad OP := N_4 - N_4 \cdot BO$$

$$GK := AF + OP \quad GH := \sqrt{HK^2 - GK^2}$$

$$EG := HK - GH \quad GJ := EJ - EG$$

$$R := \frac{OP}{GJ - EF} \quad R = 0.369547$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.70000$
 $N_4 = 1.00000$
 $R = 0.49209$

$$\frac{(2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot \sqrt{N_1 + N_2})}{\sqrt{(N_3^2 \cdot (N_1 - N_4)^2 \cdot ((N_1 + N_2) - 4 \cdot N_4 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4))) + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot ((N_1 + N_2) - 2 \cdot N_2 \cdot N_4)) + (N_1^2 \cdot N_4^2 \cdot (N_1 + N_2)) + (\sqrt{N_1 + N_2} \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}} - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_3 \cdot N_4 \cdot \sqrt{N_1 + N_2} \cdot (N_1 - N_4)}{\sqrt{N_3^2 \cdot (N_1 - N_4)^2 \cdot [N_1 + N_2 - 4 \cdot N_4 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4)] \dots + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (N_1 + N_2 - 2 \cdot N_2 \cdot N_4) + N_1^2 \cdot N_4^2 \cdot (N_1 + N_2)}} + \sqrt{N_1 + N_2} \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

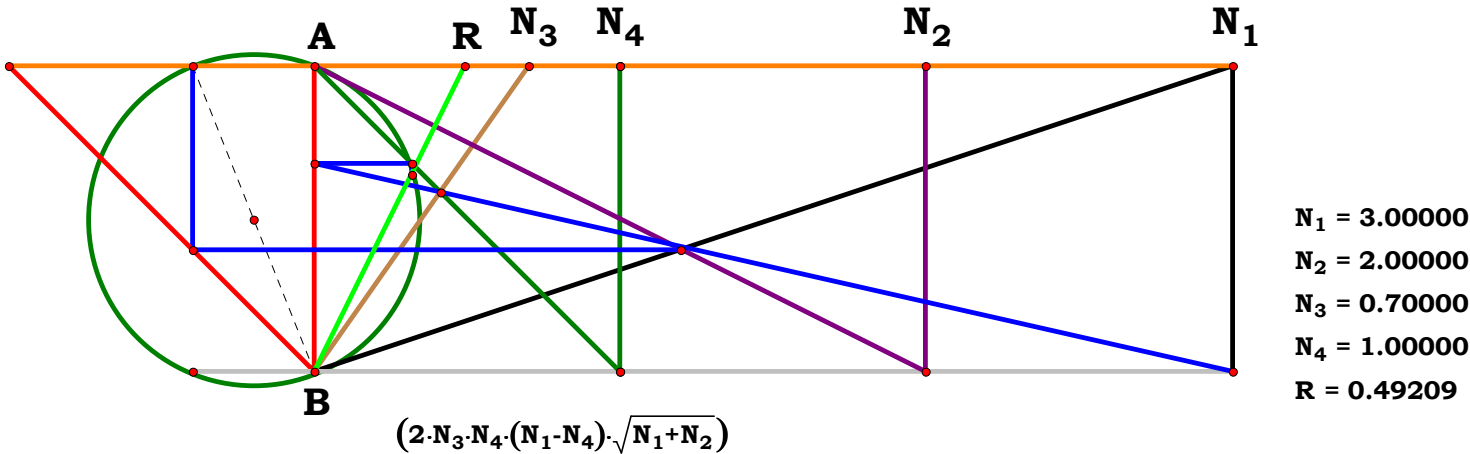
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (A - D)}{\sqrt{A \cdot N_u + B \cdot N_u \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot [D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]}}} = 0$$



$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

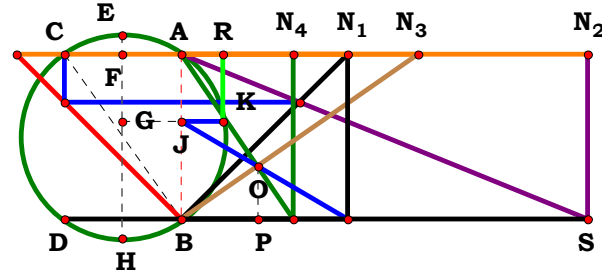
$$R - \frac{2 \cdot Y \cdot Z \cdot \sqrt{W \cdot n + X \cdot m} \cdot (W \cdot p - Z \cdot m) \cdot \sqrt{m} \cdot \sqrt{n}}{\sqrt{\begin{aligned} &2 \cdot Y \cdot W \cdot Z \cdot o \cdot p \cdot (W \cdot p - Z \cdot m) \cdot (W \cdot n \cdot p - 2 \cdot X \cdot Z \cdot m + X \cdot m \cdot p) \dots \\ &+ -Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (4 \cdot W \cdot Z^2 \cdot n + 4 \cdot X \cdot Z^2 \cdot m - W \cdot n \cdot p^2 - X \cdot m \cdot p^2 + 4 \cdot X \cdot Z \cdot m \cdot p) \dots \\ &+ n \cdot W^3 \cdot Z^2 \cdot o^2 \cdot p^2 + X \cdot m \cdot W^2 \cdot Z^2 \cdot o^2 \cdot p^2 \end{aligned}}} \cdot \sqrt{m \cdot n} + \sqrt{W \cdot n + X \cdot m} \cdot \sqrt{n} \cdot \sqrt{m} \cdot p \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m) = 0$$



$$\frac{(2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot \sqrt{N_1 + N_2})}{\sqrt{(N_3^2 \cdot (N_1 - N_4)^2 \cdot ((N_1 + N_2) - 4 \cdot N_4 \cdot (N_2 + N_1 \cdot N_4 + N_2 \cdot N_4))) + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot ((N_1 + N_2) - 2 \cdot N_2 \cdot N_4)) + (N_1^2 \cdot N_4^2 \cdot (N_1 + N_2)) + (\sqrt{N_1 + N_2} \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}} - R = 0.00000$$



4RST8AB4R1



$N_1 = 1.00473$
 $N_2 = 2.45760$
 $N_3 = 1.43563$
 $N_4 = 0.67778$
 $R = 0.25131$

Unit. $AB := 1$ Given. $N_1 := 1.00473$ $N_2 := 2.45760$ $N_3 := 1.43563$ $N_4 := .67778$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

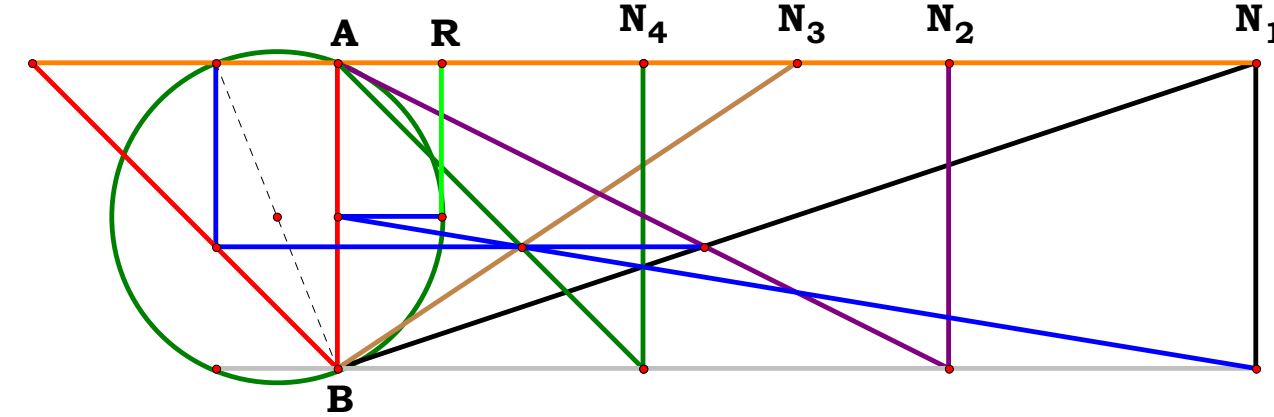
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := GK - AF \quad R = 0.251311$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 1.50000$
 $N_4 = 1.00000$
 $R = 0.33852$

$$\frac{\sqrt{(N_2 \cdot N_3 \cdot (N_1 - N_4))^2 + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1 \cdot N_2 \cdot N_4)^2 - (N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{(2 \cdot (N_1 + N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))} - R = 0.00000$$

Definitions.

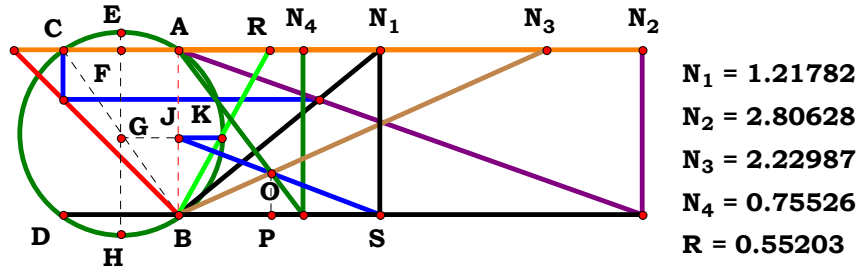
$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2 - N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{2 \cdot (A - C - D) \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot X^2 \cdot m^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (2 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot X^2 \cdot Z^2 \cdot m^2 \cdot o^2 - X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}}{(2 \cdot W \cdot n + 2 \cdot X \cdot m) \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.21782$ $N_2 := 2.80628$ $N_3 := 2.22987$ $N_4 := .75526$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

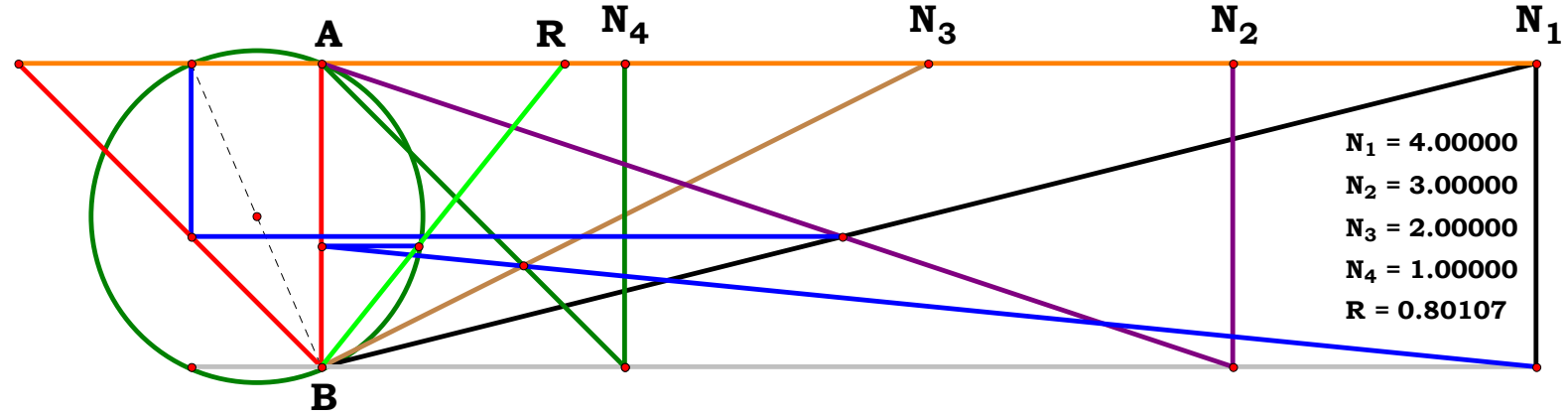
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad EG := EH - GH$$

$$GK := \sqrt{EG \cdot GH} \quad R := \frac{GK - AF}{BJ} \quad R = 0.552031$$



$$\frac{\sqrt{(N_2 \cdot N_3 \cdot (N_1 - N_4))^2 + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1 \cdot N_2 \cdot N_4)^2 - N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}}{(2 \cdot N_1 \cdot N_4 \cdot (N_1 + N_2))} - R = 0.00000$$

Definitions.

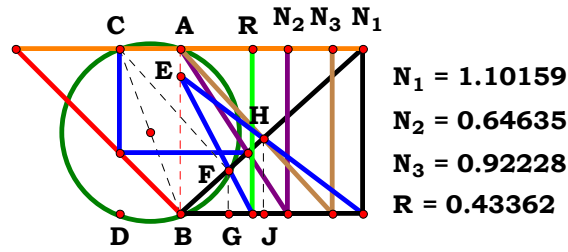
$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^2 \cdot N_2^2 \cdot N_4^2 - N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot (N_1 + N_2) \cdot N_1 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} + A \cdot (A - C - D)}{2 \cdot C \cdot (A + B)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot X^2 \cdot m^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (2 \cdot W^2 \cdot n^2 + 4 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot X^2 \cdot Z^2 \cdot m^2 \cdot o^2 - X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}}{2 \cdot W \cdot Z \cdot o \cdot (W \cdot n + X \cdot m)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.10159$ $N_2 := .64635$ $N_3 := .92228$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad HJ := \frac{N_3}{N_1 + N_3}$$

$$BJ := N_1 \cdot HJ \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1} \quad BE := \frac{HJ \cdot N_1}{N_1 - BJ}$$

$$R := \frac{BE \cdot BG}{BE - FG} \quad R = 0.433618$$

Definitions.

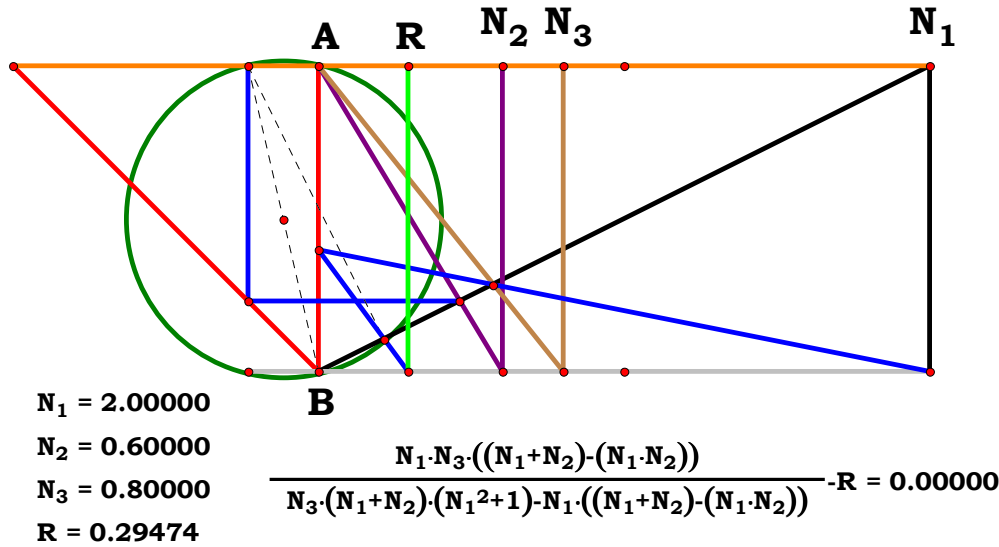
$$R - \frac{N_1 \cdot N_3 \cdot (N_1 + N_2 - N_1 \cdot N_2)}{N_3 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) - N_1 \cdot (N_1 + N_2 - N_1 \cdot N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u \cdot (A + B - N_u)}{(A^2 + N_u^2) \cdot (A + B) - C \cdot A \cdot (A + B - N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

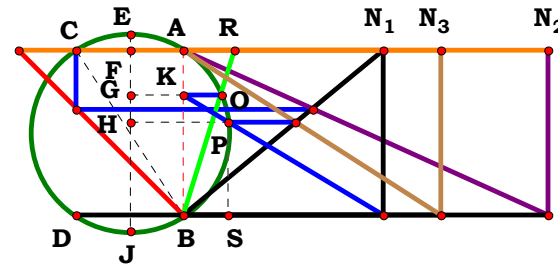
$$R - \frac{X \cdot Z \cdot o \cdot (X \cdot p - X \cdot Y + Y \cdot o)}{Y \cdot o \cdot (X^2 \cdot Z + Z \cdot o^2 + X^2 \cdot q - X \cdot o \cdot q) + X \cdot p \cdot (Z \cdot X^2 - q \cdot X \cdot o + Z \cdot o^2)} = 0$$





Unit.
 AB := 1
 Given.
 N₁ := 1.20813

N₂ := 2.20577
 N₃ := 1.56155



N₁ = 1.20813
 N₂ = 2.20577
 N₃ = 1.56155
 R = 0.31444

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

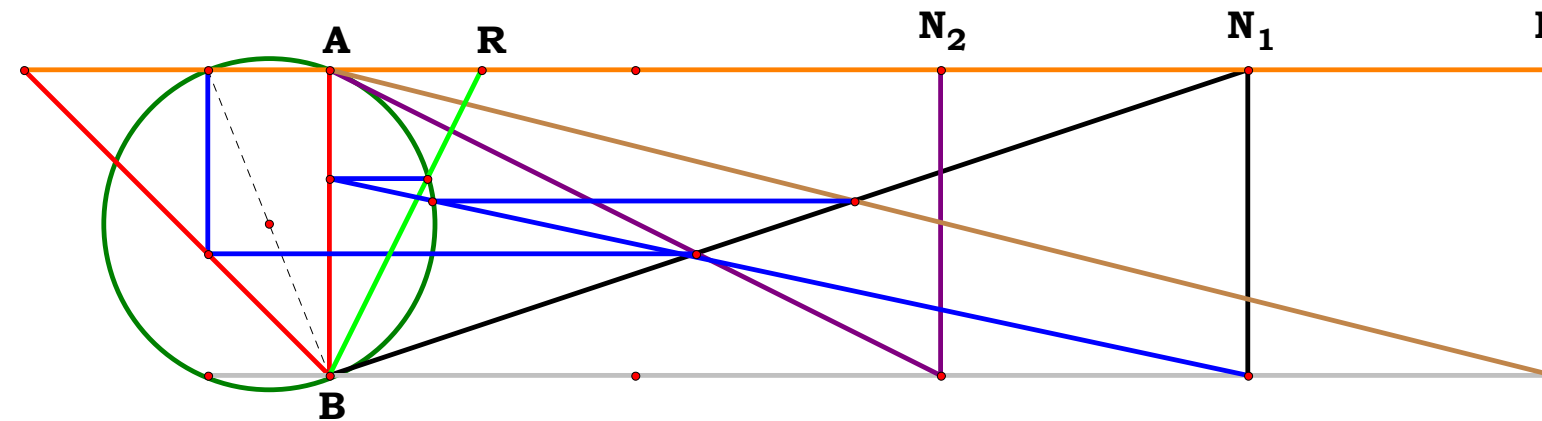
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.314439$$



N ₁ = 3.00000	AB = 1.00000	EF = 0.03852	BS = 0.33376	KO = 0.31919
N ₂ = 2.00000	AC = 0.40000	PS = 0.57143	BK = 0.64296	R - $\frac{KO}{BK}$ = 0.00000
N ₃ = 4.00000	EJ = 1.07703	HJ = 0.60995	GJ = 0.68148	
R = 0.49645	AF = 0.20000	HP = 0.53376	GO = 0.51919	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$$\mathbf{AC} - \frac{\mathbf{N_2}}{\mathbf{N_1 + N_2}} = \mathbf{0} \quad \mathbf{EJ} - \frac{\sqrt{\mathbf{N_1^2 + 2 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2}}}{(\mathbf{N_1 + N_2})} = \mathbf{0} \quad \mathbf{AF} - \frac{\mathbf{N_2}}{2 \cdot (\mathbf{N_1 + N_2})} = \mathbf{0}$$

$$\mathbf{EF} - \frac{\sqrt{\mathbf{N_1^2 + 2 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2} - \mathbf{N_2 - N_1}}}{2 \cdot (\mathbf{N_1 + N_2})} = \mathbf{0} \quad \mathbf{PS} - \frac{\mathbf{N_3}}{\mathbf{N_1 + N_3}} = \mathbf{0}$$

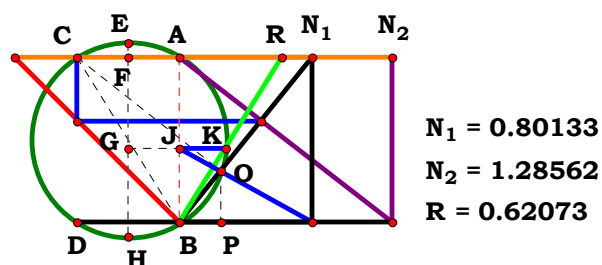
$$\mathbf{HJ} - \frac{\sqrt{\mathbf{N_1^2 + 2 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2} \cdot (\mathbf{N_1 + N_3}) - (\mathbf{N_1 - N_3}) \cdot (\mathbf{N_1 + N_2})}}{2 \cdot (\mathbf{N_1 + N_2}) \cdot (\mathbf{N_1 + N_3})} = \mathbf{0}$$

$$\mathbf{HP} - \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ - HJ})} = \mathbf{0} \quad \mathbf{BS} - (\mathbf{HP - AF}) = \mathbf{0}$$

$$\mathbf{BK} - \frac{\mathbf{PS \cdot N_1}}{\mathbf{N_1 - BS}} = \mathbf{0} \quad \mathbf{GJ} - (\mathbf{BK + EF}) = \mathbf{0}$$

$$\mathbf{GO} - \sqrt{\mathbf{GJ} \cdot (\mathbf{EJ - GJ})} = \mathbf{0} \quad \mathbf{KO} - (\mathbf{GO - AF}) = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{KO}}{\mathbf{BK}} = \mathbf{0}$$

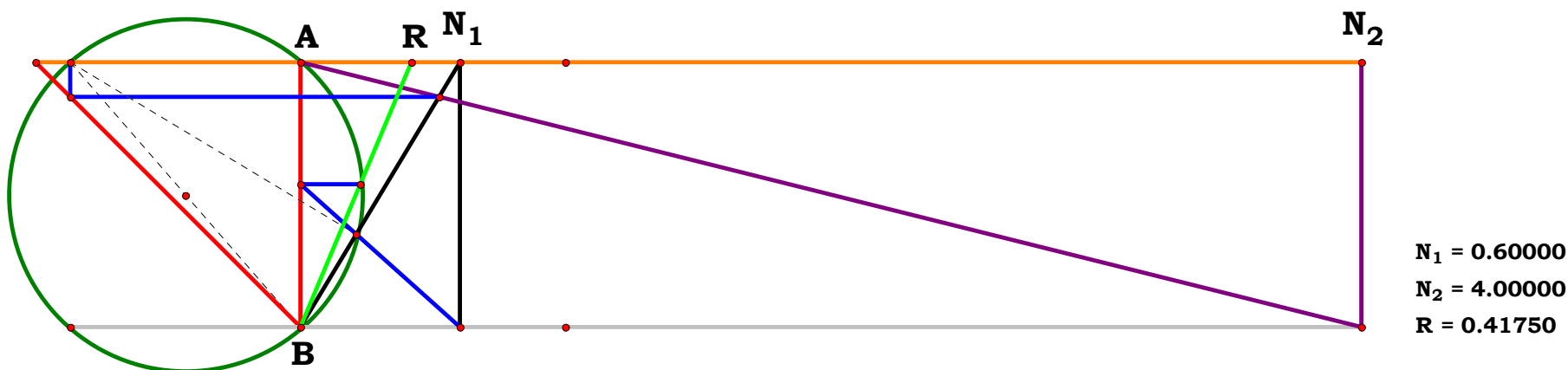

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$
$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2} \quad \mathbf{ON}_1 := \frac{\mathbf{N}_1 \cdot (\mathbf{N}_1 + \mathbf{AC})}{\mathbf{BN}_1} \quad \mathbf{BO} := \mathbf{BN}_1 - \mathbf{ON}_1$$

$$\mathbf{BP} := \frac{\mathbf{N}_1 \cdot \mathbf{BO}}{\mathbf{BN}_1} \quad \mathbf{OP} := \frac{\mathbf{BP}}{\mathbf{N}_1} \quad \mathbf{BJ} := \frac{\mathbf{OP} \cdot \mathbf{N}_1}{\mathbf{N}_1 - \mathbf{BP}}$$

$$\mathbf{GH} := \mathbf{BJ} + \mathbf{EF} \quad \mathbf{GK} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})}$$

$$\mathbf{JK} := \mathbf{GK} - \mathbf{AF} \quad \mathbf{R} := \frac{\mathbf{JK}}{\mathbf{BJ}} \quad \mathbf{R} = 0.620735$$


$$\frac{(N_1 \cdot N_2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)) - \sqrt{((N_1^6 \cdot (N_2 - 2)^2) + (2 \cdot N_1^3 \cdot N_2 \cdot (N_2 - 4)) \cdot ((N_1^2 \cdot N_2 - 2 \cdot N_1^2 - N_2^2 - 4 \cdot N_2) + 2)) + (N_1^4 \cdot ((N_2^2 - 8 \cdot N_2) + 2) \cdot (N_2^2 - 2 \cdot N_2 - 2))) - (3 \cdot N_1^2 \cdot N_2^2 \cdot ((N_2^2 - 12 \cdot N_2) + 8)) + (4 \cdot N_1 \cdot N_2^3 \cdot (3 \cdot N_2 - 4) - 4 \cdot N_2^4)}}{(2 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_2 - (N_1 + N_2)))} - R = 0.00000$$

$$R - \frac{N_1 \cdot N_2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2) - \sqrt{N_1^6 \cdot (N_2 - 2)^2 + 2 \cdot N_1^3 \cdot N_2 \cdot (N_2 - 4) \cdot (N_1^2 \cdot N_2 - 2 \cdot N_1^2 - N_2^2 - 4 \cdot N_2 + 2) \dots + N_1^4 \cdot (N_2^2 - 8 \cdot N_2 + 2) \cdot (N_2^2 - 2 \cdot N_2 - 2) - 3 \cdot N_1^2 \cdot N_2^2 \cdot (N_2^2 - 12 \cdot N_2 + 8) \dots + 4 \cdot N_1 \cdot N_2^3 \cdot (3 \cdot N_2 - 4) - 4 \cdot N_2^4}}{2 \cdot (N_1 + N_2) \cdot (N_1 \cdot N_2 - N_2 - N_1)} = 0$$

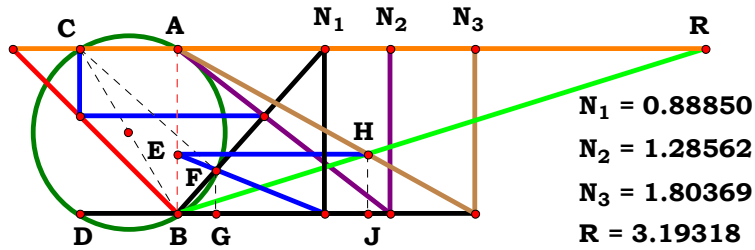
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2)} + \left[\left(3 \cdot \mathbf{A}^2 + 6 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2 \right) \cdot \left(2 \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 + 2 \cdot \mathbf{B}^2 \right) \right] \cdot \mathbf{N}_{\mathbf{u}}^2 + 12 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A}^2 \cdot (\mathbf{A} + \mathbf{B})^3 - 4 \cdot \mathbf{A}^2 \cdot (\mathbf{A} + \mathbf{B})^4 - \mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \right)}{2 \cdot \mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})} = 0$$



$$\mathbf{N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0}$$

$$\mathbf{R - \frac{Y \cdot Z \cdot (q \cdot Y^2 + Z \cdot Y \cdot p + Z \cdot p^2) - \sqrt{Y^6 \cdot q^2 \cdot (Z - 2 \cdot q)^2 + 2 \cdot Y^5 \cdot Z \cdot p \cdot q \cdot (Z - 4 \cdot q) \cdot (Z - 2 \cdot q) + Y^4 \cdot p^2 \cdot (Z^2 - 2 \cdot Z \cdot q - 2 \cdot q^2) \cdot (Z^2 - 8 \cdot Z \cdot q + 2 \cdot q^2) \dots}{+ \ -2 \cdot Y^3 \cdot Z \cdot p^3 \cdot (Z - 4 \cdot q) \cdot (Z^2 + 4 \cdot Z \cdot q - 2 \cdot q^2) - 3 \cdot Y^2 \cdot Z^2 \cdot p^4 \cdot (Z^2 - 12 \cdot Z \cdot q + 8 \cdot q^2) + 4 \cdot Z^3 \cdot p^5 \cdot (3 \cdot Y \cdot Z - 4 \cdot Y \cdot q - Z \cdot p)}}{2 \cdot p \cdot (Y \cdot q + Z \cdot p) \cdot (Y \cdot Z - Y \cdot q - Z \cdot p)}} = 0}$$



Unit. $AB := 1$ Given. $N_1 := .88850$ $N_2 := 1.28562$ $N_3 := 1.80369$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad BJ := N_3 \cdot (AB - BE)$$

$$R := \frac{BJ}{BE} \quad R = 3.193193$$

Definitions.

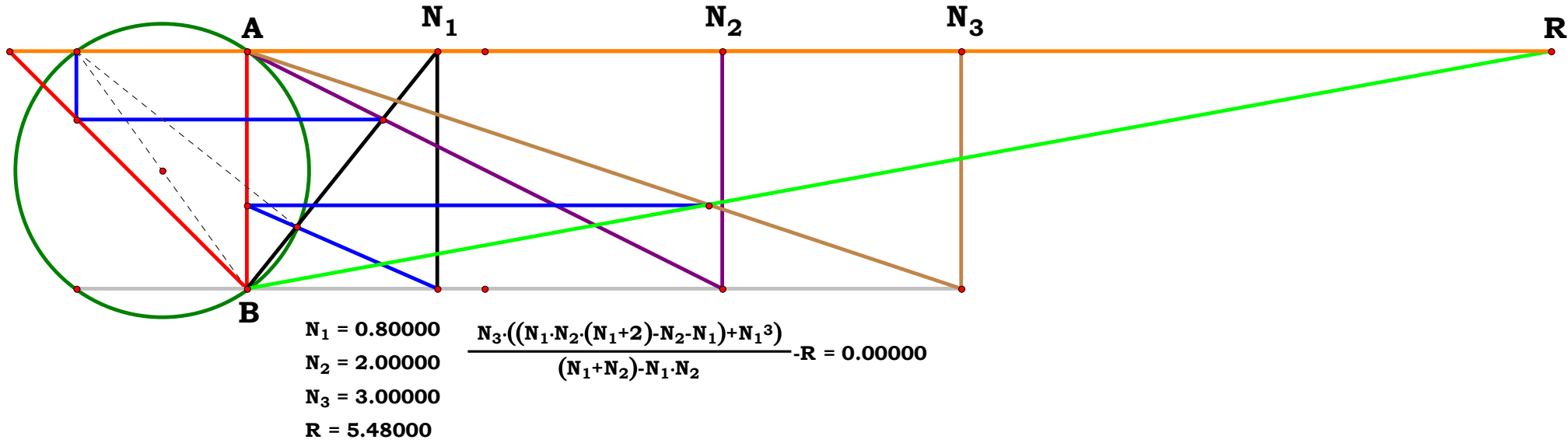
$$R - \frac{N_3 \cdot \left[N_1 \cdot N_2 \cdot (N_1 + 2) - N_2 - N_1 + N_1^3 \right]}{N_1 + N_2 - N_1 \cdot N_2} = 0$$

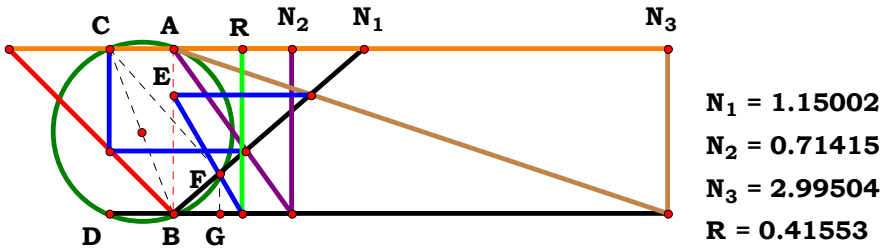
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u)}{A^2 \cdot C \cdot (A + B - N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Z \cdot (X \cdot p + Y \cdot o) + X \cdot Z \cdot o^2 \cdot (2 \cdot Y - p) - Y \cdot Z \cdot o^3}{o^2 \cdot q \cdot (X \cdot p - X \cdot Y + Y \cdot o)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := .71415$ $N_3 := 2.99504$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BE := \frac{N_3}{N_1 + N_3}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$FG := \frac{BG}{N_1} \quad R := \frac{BG \cdot BE}{BE - FG} \quad R = 0.415528$$

Definitions.

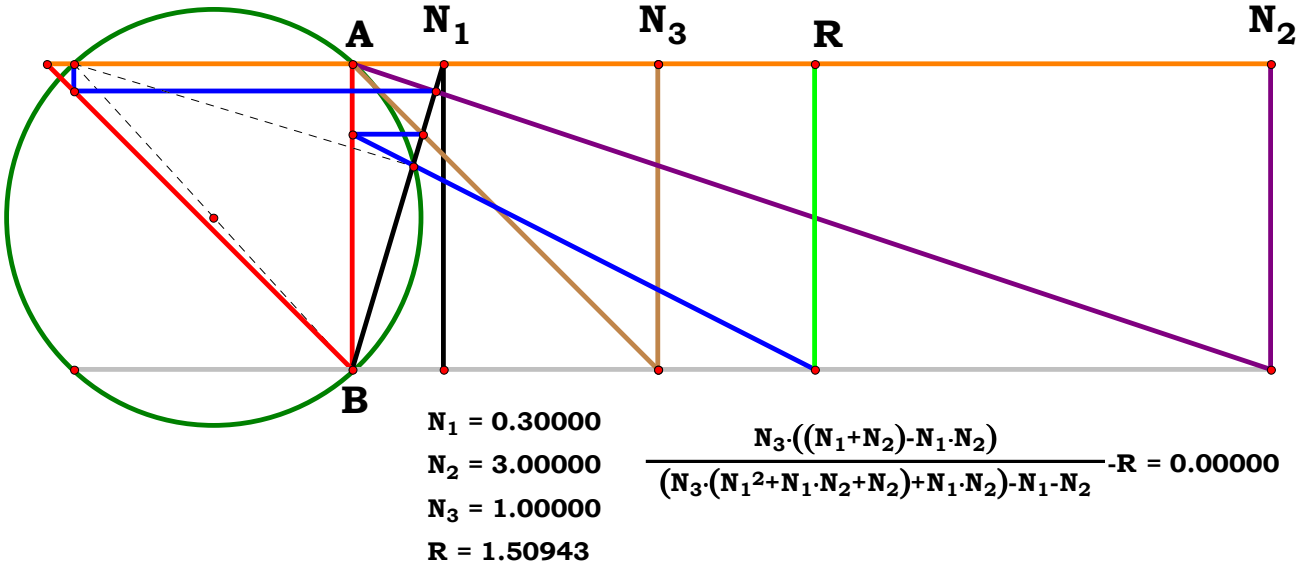
$$R - \frac{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_2)}{N_3 \cdot (N_1^2 + N_1 \cdot N_2 + N_2) + N_1 \cdot N_2 - N_2 - N_1} = 0$$

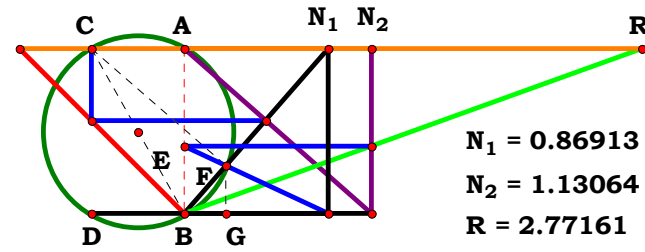
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot N_u \cdot (A + B - N_u)}{N_u^2 \cdot (A + B) + N_u \cdot A \cdot (A + C) - A \cdot C \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot o \cdot (X \cdot p - X \cdot Y + Y \cdot o)}{Y \cdot o \cdot (X \cdot Z + X \cdot q + Z \cdot o - o \cdot q) + X \cdot p \cdot (X \cdot Z - o \cdot q)} = 0$$





Unit. AB := 1 **Given.** N₁ := .86913 N₂ := 1.13064

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{Y} := 20 \quad \mathbf{Z} := 19 \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_1}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_2}}$$

4RST8AB4R9

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2}$$

$$\mathbf{FN}_1 := \frac{\mathbf{N}_1 \cdot (\mathbf{N}_1 + \mathbf{AC})}{\mathbf{BN}_1} \quad \mathbf{BF} := \mathbf{BN}_1 - \mathbf{FN}_1$$

$$\mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1} \quad \mathbf{FG} := \frac{\mathbf{BG}}{\mathbf{N}_1}$$

$$\text{BE} := \frac{\text{FG} \cdot \text{N}_1}{\text{N}_1 - \text{BG}} \quad \text{R} := \frac{\text{N}_2}{\text{BE}} \quad \text{R} = 2.771609$$

Definitions.

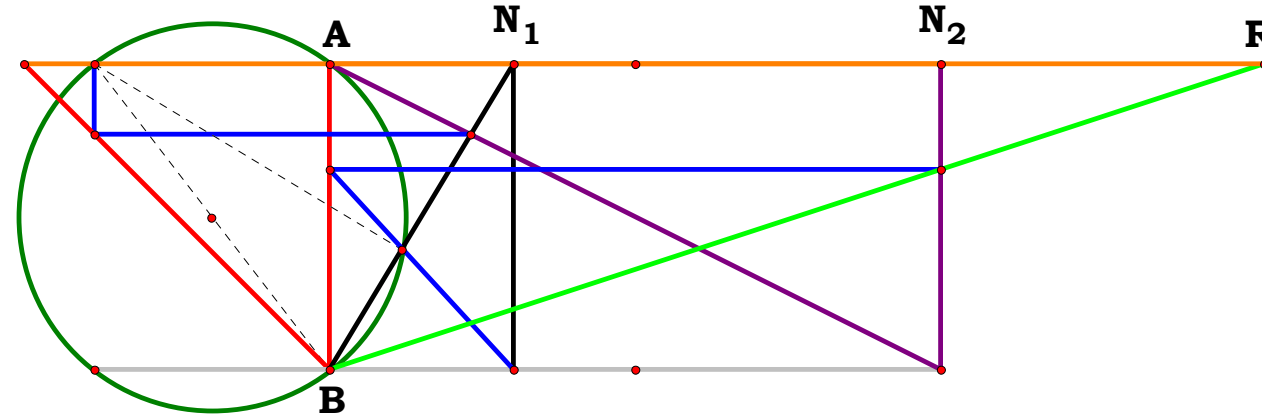
$$R - \frac{N_1 \cdot N_2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)}{N_1 + N_2 - N_1 \cdot N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

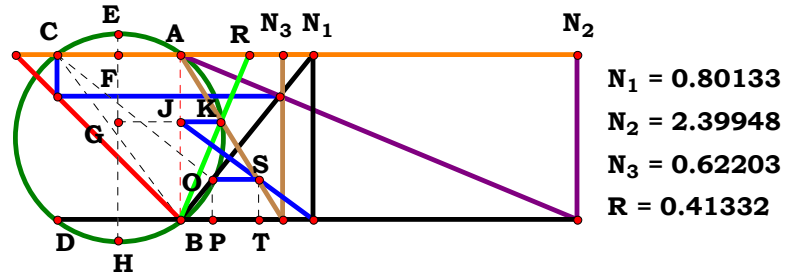
$$\mathbf{R} - \frac{\mathbf{N_u}^2 \cdot [\mathbf{A}^2 + \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]}{\mathbf{A}^2 \cdot \mathbf{B} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N_u})} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{Y} \cdot \mathbf{Z} \cdot (\mathbf{q} \cdot \mathbf{Y}^2 + \mathbf{Z} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{Z} \cdot \mathbf{p}^2)}{\mathbf{p}^2 \cdot \mathbf{q} \cdot (\mathbf{Y} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} + \mathbf{Z} \cdot \mathbf{p})} = 0$$



$$\frac{N_1 \cdot N_2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)}{(N_1 + N_2) \cdot N_1 \cdot N_2} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .80133$ $N_2 := 2.39948$ $N_3 := .62203$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

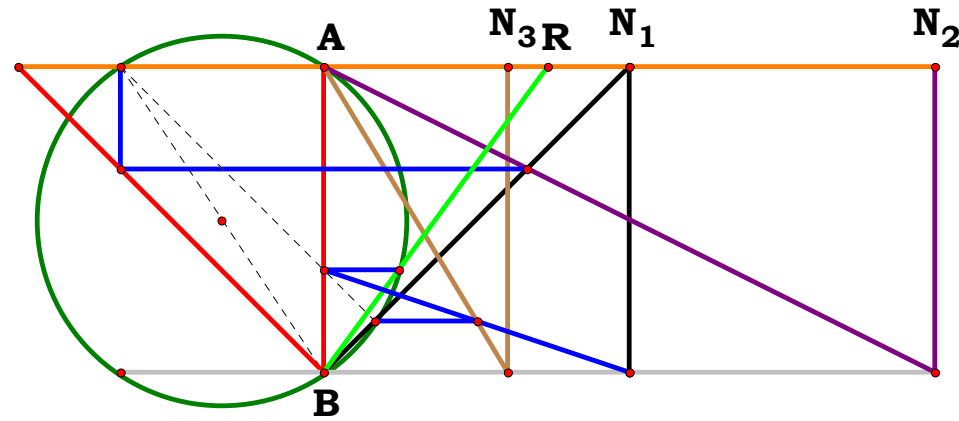
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BO := BN_1 - ON_1 \quad BP := \frac{N_1 \cdot BO}{BN_1} \quad OP := \frac{BP}{N_1}$$

$$BT := N_3 \cdot (AB - OP) \quad BJ := \frac{OP \cdot N_1}{N_1 - BT} \quad GH := BJ + EF$$

$$GK := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GK - AF}{BJ} \quad R = 0.413318$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 0.60000$
 $R = 0.73205$

$$\frac{\sqrt{((N_2^2 \cdot N_3^2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)^2) + ((N_1 \cdot N_2 \cdot (N_1 - 2) - N_2 - 2 \cdot N_1^2)^2 \cdot (N_1 + N_2)^2)) \cdot (2 \cdot N_3 \cdot (N_1^2 + N_1 \cdot N_2 + N_2) \cdot (N_1 + N_2) \cdot (N_1 \cdot N_2 \cdot (N_1 - 2) \cdot (N_2 - 2) + 2 \cdot N_1^2 + 3 \cdot N_2^2)) - (N_2 \cdot (((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^2 \cdot N_3) + N_1^3) - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3))}}{2 \cdot (N_1 + N_2) \cdot ((N_1 + N_2) - N_1 \cdot N_2)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_2^2 \cdot N_3^2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)^2 + [N_1 \cdot N_2 \cdot (N_1 - 2) - N_2 - 2 \cdot N_1^2]^2 \cdot (N_1 + N_2)^2 \dots - N_2 \cdot (N_1 + N_2 + N_1^2 \cdot N_2 - N_1^2 \cdot N_3 + N_1^3 - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3)}}{2 \cdot (N_1 + N_2) \cdot (N_1 + N_2 - N_1 \cdot N_2)} = 0$$

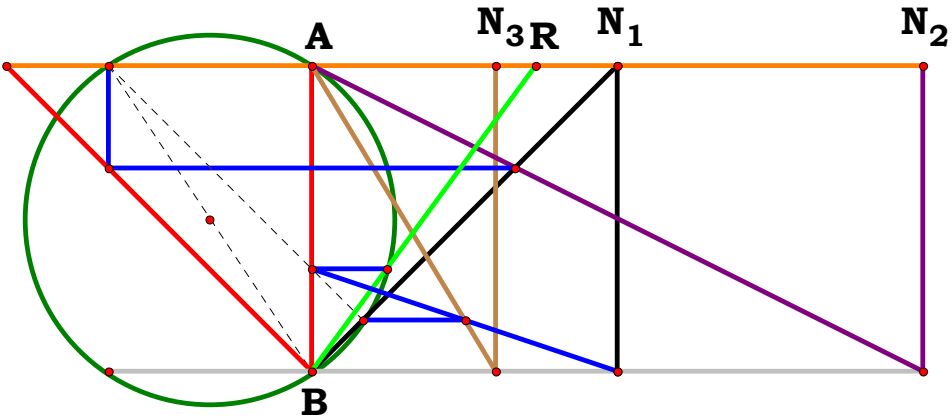
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{C^2 \cdot (A + B)^2 \cdot [A^2 + N_u \cdot (2 \cdot A + 2 \cdot B - N_u)]^2 + A^2 \cdot N_u^2 \cdot (A^2 + N_u \cdot A + B \cdot N_u)^2 \dots + [N_u^2 \cdot (A - C) \cdot (A + B) + A^3 \cdot N_u - [A^2 \cdot C \cdot (A + B)]]}}{2 \cdot A \cdot C \cdot (A + B) \cdot (A + B - N_u)} = 0$$



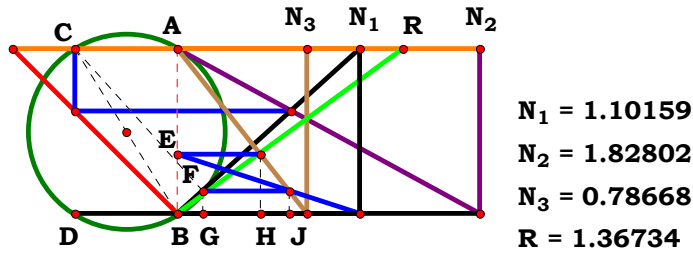
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$\begin{aligned}
 & Y \cdot q \cdot (X^2 + o^2) \cdot (X \cdot p + Y \cdot o) \dots \\
 & + -Y \cdot Z \cdot o \cdot (p \cdot X^2 + Y \cdot X \cdot o + Y \cdot o^2) - \sqrt{Z^2 \cdot Y^2 \cdot o^2 \cdot (p \cdot X^2 + Y \cdot X \cdot o + Y \cdot o^2)^2 \dots} \\
 & + -2 \cdot Z \cdot o \cdot q \cdot (p \cdot X^2 + Y \cdot X \cdot o + Y \cdot o^2) \cdot (X \cdot p + Y \cdot o) \cdot (X^2 \cdot Y^2 - 2 \cdot X^2 \cdot Y \cdot p + 2 \cdot X^2 \cdot p^2 - 2 \cdot X \cdot Y^2 \cdot o + 4 \cdot X \cdot Y \cdot o \cdot p + 3 \cdot Y^2 \cdot o^2) \dots \\
 & + q^2 \cdot (X \cdot p + Y \cdot o)^2 \cdot (X^2 \cdot Y - Y \cdot o^2 - 2 \cdot X^2 \cdot p - 2 \cdot X \cdot Y \cdot o)^2 \\
 R - \frac{\dots}{2 \cdot o \cdot q \cdot (X \cdot p + Y \cdot o) \cdot (X \cdot Y - X \cdot p - Y \cdot o)} = 0
 \end{aligned}$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 0.60000$
 $R = 0.73205$

$$\frac{\sqrt{((N_2^2 \cdot N_3^2 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)^2) + ((N_1 \cdot N_2 \cdot (N_1 - 2) - N_2 - 2 \cdot N_1^2)^2 \cdot (N_1 + N_2)^2)) - (2 \cdot N_3 \cdot (N_1^2 + N_1 \cdot N_2 + N_2) \cdot (N_1 + N_2) \cdot (N_1 \cdot N_2 \cdot (N_1 - 2) \cdot (N_2 - 2) + 2 \cdot N_1^2 + 3 \cdot N_2^2)) - (N_2 \cdot (((N_1 + N_2 + N_1^2 \cdot N_2) - N_1^2 \cdot N_3) + N_1^3) - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3))}{2 \cdot (N_1 + N_2) \cdot ((N_1 + N_2) - N_1 \cdot N_2)} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.10159$ $N_2 := 1.82802$ $N_3 := .78668$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BJ := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BJ}$$

$$BH := N_3 \cdot (AB - BE) \quad R := \frac{BH}{BE} \quad R = 1.367376$$

Definitions.

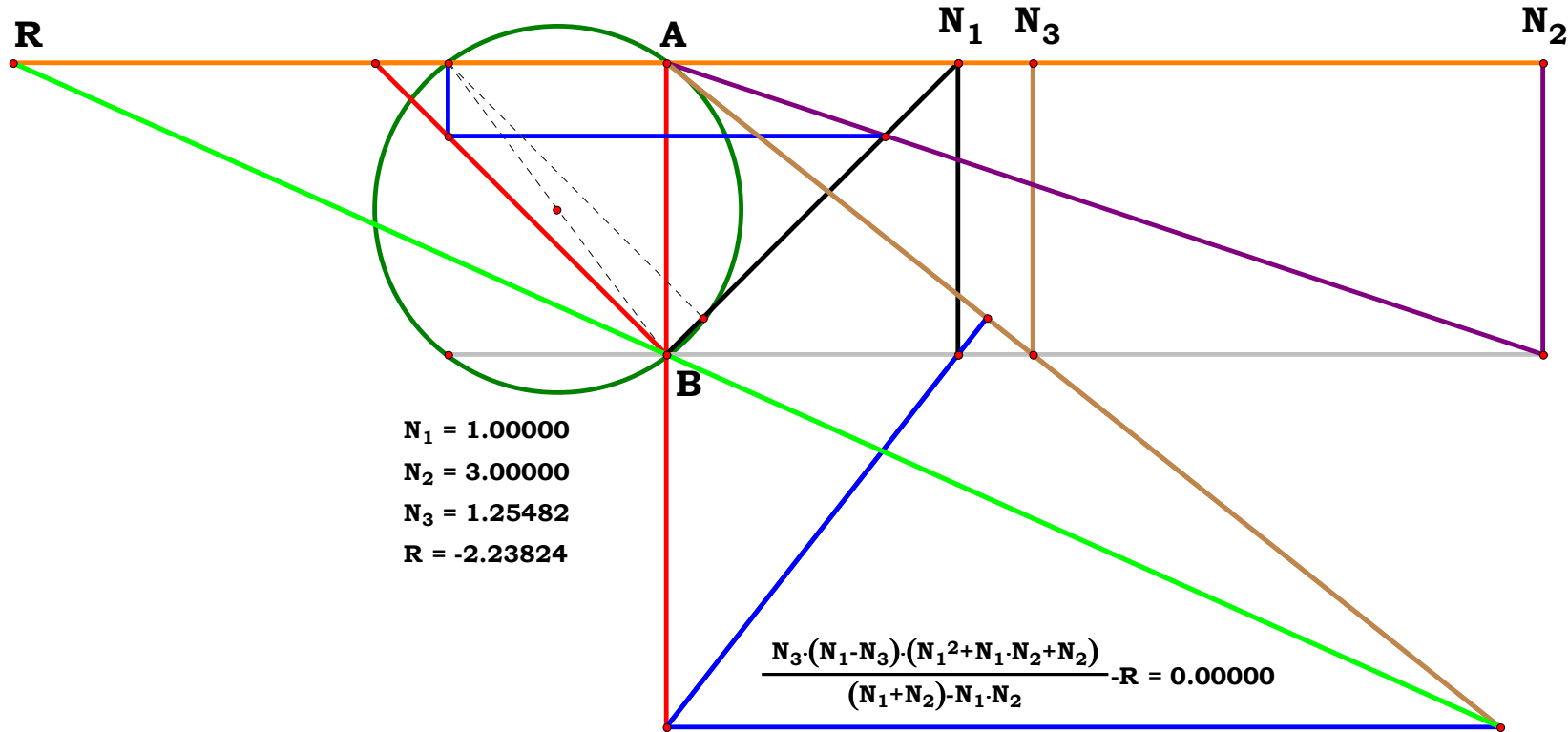
$$R - \frac{N_3 \cdot (N_1 - N_3) \cdot (N_1^2 + N_1 \cdot N_2 + N_2)}{N_1 + N_2 - N_1 \cdot N_2} = 0$$

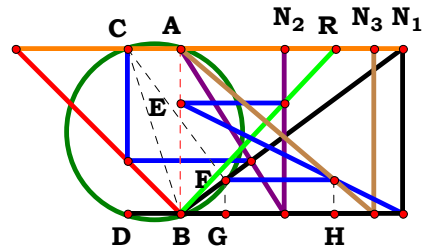
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 \cdot (C - A) \cdot [A^2 + N_u \cdot (A + B)]}{A^2 \cdot C^2 \cdot (A + B - N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot q - Z \cdot o) \cdot (p \cdot X^2 + Y \cdot X \cdot o + Y \cdot o^2)}{o^2 \cdot q^2 \cdot (X \cdot p - X \cdot Y + Y \cdot o)} = 0$$





$N_1 = 1.34373$
 $N_2 = 0.62698$
 $N_3 = 1.17412$
 $R = 0.93569$

Unit. $AB := 1$ Given. $N_1 := 1.34373$ $N_2 := .62698$ $N_3 := 1.17412$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BH := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BH}$$

$$R := \frac{N_2}{BE} \quad R = 0.935678$$

Definitions.

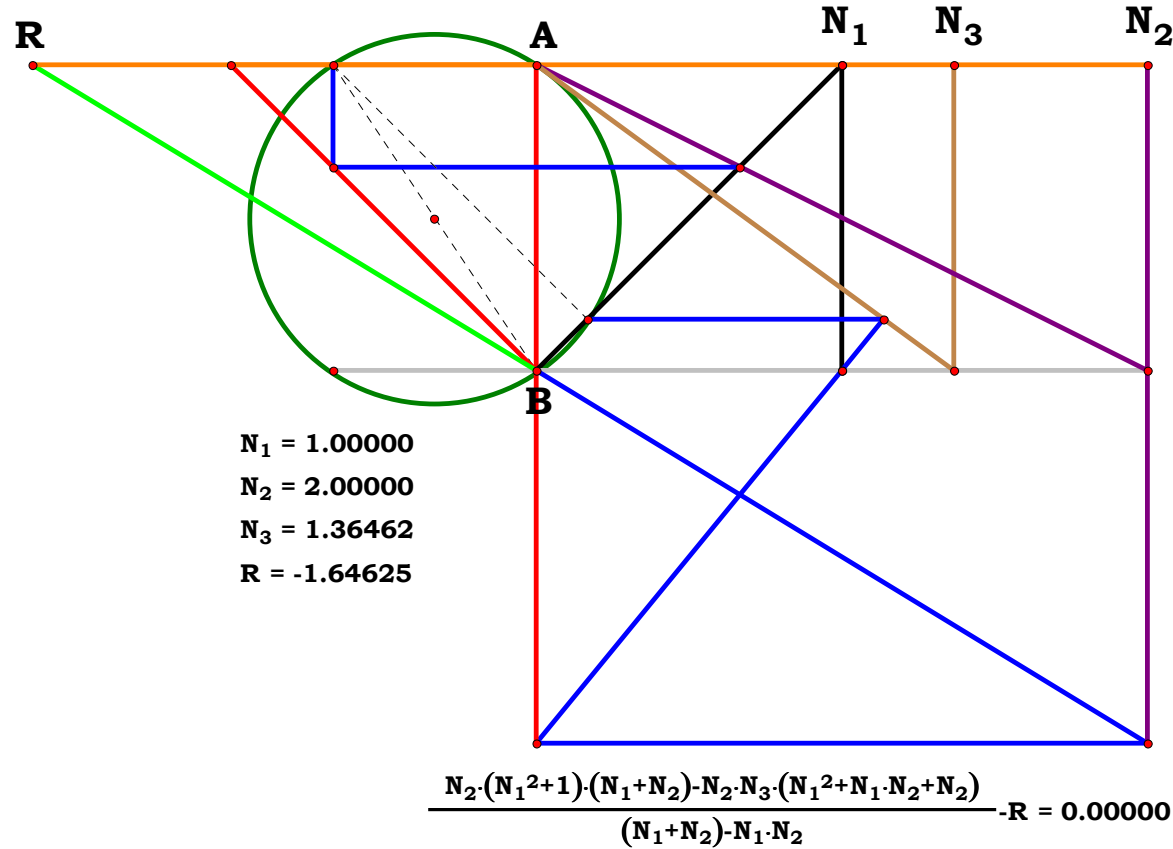
$$R - \frac{N_2 \cdot (N_1^2 + 1) \cdot (N_1 + N_2) - N_2 \cdot N_3 \cdot (N_1^2 + N_1 \cdot N_2 + N_2)}{N_1 + N_2 - N_1 \cdot N_2} = 0$$

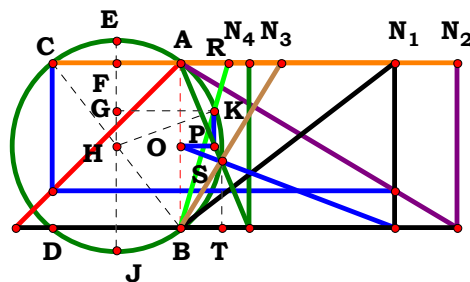
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot [N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B)]}{A^2 \cdot B \cdot C \cdot (A + B - N_u)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot q \cdot (X^2 + o^2) \cdot (X \cdot p + Y \cdot o) - Z \cdot Y \cdot o \cdot (p \cdot X^2 + Y \cdot X \cdot o + Y \cdot o^2)}{o^2 \cdot p \cdot q \cdot (X \cdot p - X \cdot Y + Y \cdot o)} = 0$$





$N_1 = 1.29530$
 $N_2 = 1.67305$
 $N_3 = 0.61234$
 $N_4 = 0.41626$
 $R = 0.29129$

Unit. $AB := 1$ Given. $N_1 := 1.2953$ $N_2 := 1.67305$ $N_3 := .61234$ $N_4 := .41626$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad EF := \frac{EJ - AB}{2}$$

$$AF := \frac{AC}{2} \quad HK := \frac{EJ}{2} \quad ST := \frac{N_4}{N_4 + N_3}$$

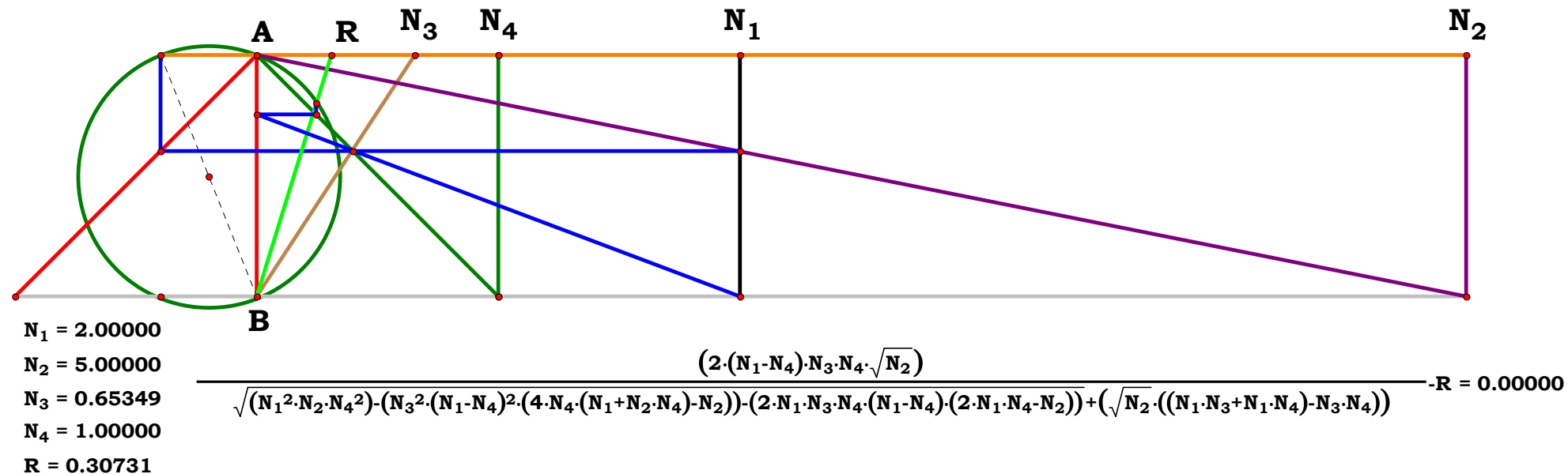
$$BT := N_3 \cdot ST \quad TU := N_1 - BT \quad BO := \frac{ST \cdot N_1}{TU}$$

$$OP := N_4 - N_4 \cdot BO \quad GK := AF + OP$$

$$GH := \sqrt{HK^2 - GK^2} \quad EG := HK - GH$$

$$GJ := EJ - EG \quad R := \frac{OP}{GJ - EF} \quad R = 0.291293$$

Definitions.



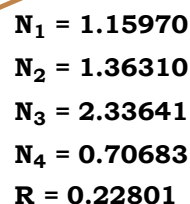
$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_3 \cdot N_4 \cdot (N_1 - N_4)}{\sqrt{N_1^2 \cdot N_2 \cdot N_4^2 - N_3^2 \cdot (N_1 - N_4)^2 \cdot [4 \cdot N_4 \cdot (N_1 + N_2 \cdot N_4) - N_2] - 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (2 \cdot N_1 \cdot N_4 - N_2) + \sqrt{N_2} \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot B \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{X \cdot Y \cdot Z} \cdot (W \cdot p - Z \cdot m) \cdot \sqrt{m}}{\sqrt{W^2 \cdot X \cdot Z^2 \cdot m \cdot o^2 \cdot p^2 - Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (4 \cdot X \cdot m \cdot Z^2 + 4 \cdot W \cdot n \cdot Z \cdot p - X \cdot m \cdot p^2) - 2 \cdot Y \cdot W \cdot Z \cdot o \cdot p \cdot (W \cdot p - Z \cdot m) \cdot (2 \cdot W \cdot Z \cdot n - X \cdot m \cdot p) + \sqrt{m} \cdot \sqrt{X} \cdot p \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}} = 0$$


$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\mathbf{W} := 20 \quad \mathbf{X} := 19 \quad \mathbf{Y} := 18 \quad \mathbf{Z} := 17 \quad \mathbf{m} := \frac{\mathbf{W}}{\mathbf{N}_1} \quad \mathbf{n} := \frac{\mathbf{X}}{\mathbf{N}_2} \quad \mathbf{o} := \frac{\mathbf{Y}}{\mathbf{N}_3} \quad \mathbf{p} := \frac{\mathbf{Z}}{\mathbf{N}_4}$$

$$\mathbf{AC} := \frac{N_1}{N_2} \qquad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \qquad \mathbf{EF} := \frac{\mathbf{EH} - \mathbf{AB}}{2}$$

$$\mathbf{OP} := \frac{\mathbf{N}_4}{\mathbf{N}_3 + \mathbf{N}_4} \quad \mathbf{BP} := \mathbf{N}_3 \cdot \mathbf{OP}$$

$$\mathbf{PS} := \mathbf{N}_1 - \mathbf{BP} \quad \mathbf{BJ} := \frac{\mathbf{OP} \cdot \mathbf{N}_1}{\mathbf{PS}}$$

$$\mathbf{GH} := \mathbf{BJ} + \mathbf{EF} \quad \mathbf{GK} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})}$$

$$\mathbf{R} := \mathbf{GK} - \mathbf{AF} \quad \mathbf{R} = 0.228007$$

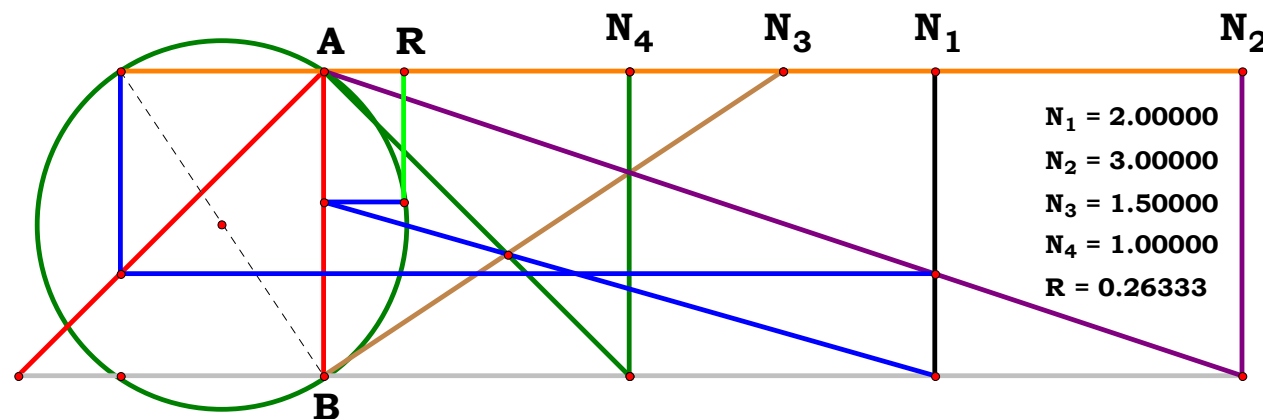
$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^4 \cdot N_4^2 - N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot N_2 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{2 \cdot A \cdot (C - A + D)} = 0$$

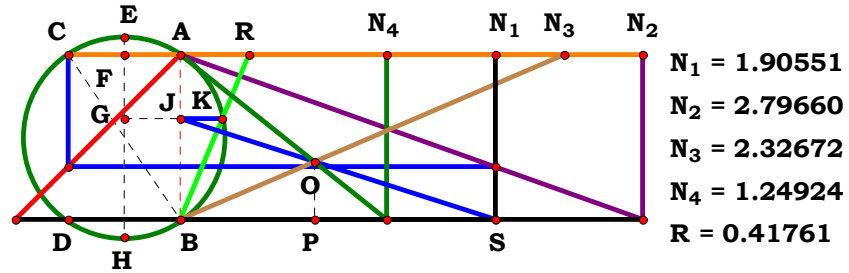
$$\mathbf{N}_1 - \frac{\mathbf{W}}{\mathbf{m}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{X}}{\mathbf{n}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Y}}{\mathbf{o}} = 0 \quad \mathbf{N}_4 - \frac{\mathbf{Z}}{\mathbf{p}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y}^2 \cdot \mathbf{W}^2 \cdot \mathbf{n}^2 \cdot (\mathbf{W} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{m})^2 + 2 \cdot \mathbf{Y} \cdot \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot (\mathbf{W}^2 \cdot \mathbf{n}^2 + 2 \cdot \mathbf{X}^2 \cdot \mathbf{m}^2) \cdot (\mathbf{W} \cdot \mathbf{p} - \mathbf{Z} \cdot \mathbf{m}) + \mathbf{W}^4 \cdot \mathbf{Z}^2 \cdot \mathbf{n}^2 \cdot \mathbf{o}^2 - \mathbf{W} \cdot \mathbf{n} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m})}}{2 \cdot \mathbf{X} \cdot \mathbf{m} \cdot (\mathbf{W} \cdot \mathbf{Y} \cdot \mathbf{p} + \mathbf{W} \cdot \mathbf{Z} \cdot \mathbf{o} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{m})} = 0$$



N₁ = 2.00000
N₂ = 3.00000
N₃ = 1.50000
N₄ = 1.00000
R = 0.26333

$$\frac{\sqrt{(N_1 \cdot N_3 \cdot (N_1 - N_4))^2 + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1^4 \cdot N_4^2) - (N_1 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)) \cdot (2 \cdot N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{(2 \cdot N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 1.90551$ $N_2 := 2.79660$ $N_3 := 2.32672$ $N_4 := 1.24924$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

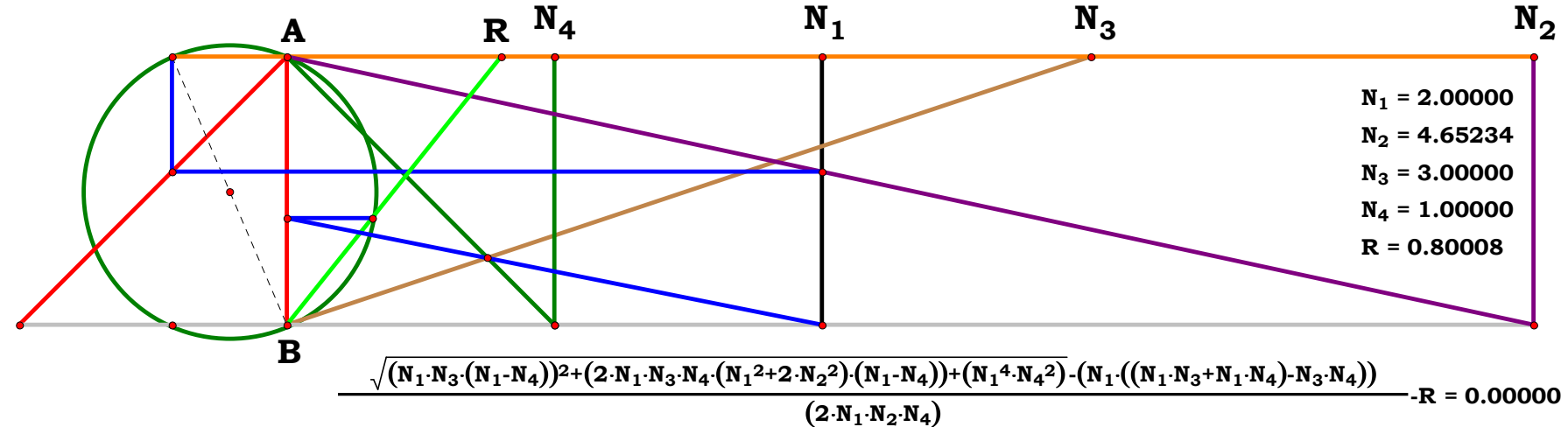
$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS} \quad GH := BJ + EF$$

$$EG := EH - GH \quad GK := \sqrt{EG \cdot GH}$$

$$R := \frac{GK - AF}{BJ} \quad R = 0.417606$$



Definitions.

$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_1 - N_4)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1^2 + 2 \cdot N_2^2) \cdot (N_1 - N_4) + N_1^4 \cdot N_4^2 - N_1 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot N_1 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

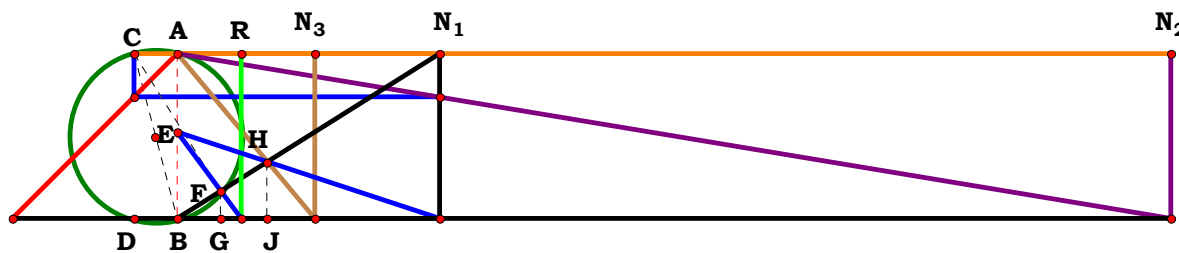
$$R - \frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{2 \cdot A \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot W^2 \cdot n^2 \cdot (W \cdot p - Z \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (W^2 \cdot n^2 + 2 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^4 \cdot Z^2 \cdot n^2 \cdot o^2 - W \cdot n \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)}}{2 \cdot W \cdot X \cdot Z \cdot m \cdot o} = 0$$



4RST8AB5R4


$$N_1 = 1.58588$$
$$N_2 = 6.01228$$
$$N_3 = 0.83511$$

R = 0.38271

Unit. $\text{AB} := 1$ **Given.** $N_1 := 1.58588$ $N_2 := 6.01228$

$$N_3 := .83511$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{AC} := \frac{N_1}{N_2} \qquad \mathbf{HJ} := \frac{N_3}{N_1 + N_3}$$

$$\mathbf{BJ} := \mathbf{N}_1 \cdot \mathbf{HJ} \quad \mathbf{BN}_1 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_1^2}$$

$$\mathbf{FN}_1 := \frac{\mathbf{N}_1 \cdot (\mathbf{N}_1 + \mathbf{AC})}{\mathbf{BN}_1} \quad \mathbf{BF} := \mathbf{BN}_1 - \mathbf{FN}_1$$

$$\mathbf{BG} := \frac{\mathbf{N}_1 \cdot \mathbf{BF}}{\mathbf{BN}_1} \quad \mathbf{FG} := \frac{\mathbf{BG}}{\mathbf{N}_1}$$

$$\mathbf{BE} := \frac{\mathbf{HJ} \cdot \mathbf{N}_1}{\mathbf{N}_1 - \mathbf{BJ}} \quad \mathbf{R} := \frac{\mathbf{BE} \cdot \mathbf{BG}}{\mathbf{BE} - \mathbf{FG}} \quad \mathbf{R} = 0.382713$$

Definitions.

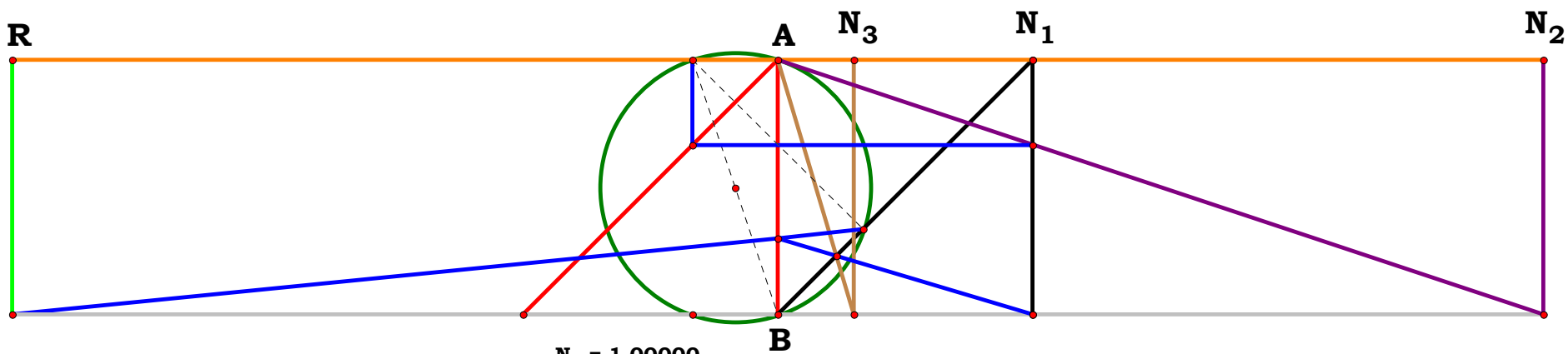
$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_2 - \mathbf{N}_1^2)}{\mathbf{N}_2 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1^2 + 1) + \mathbf{N}_1 \cdot (\mathbf{N}_1^2 - \mathbf{N}_2)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{Z} \cdot (\mathbf{Y} \cdot \mathbf{o}^2 - \mathbf{X}^2 \cdot \mathbf{p})}{\mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z} \cdot \mathbf{X}^2 - \mathbf{q} \cdot \mathbf{X} \cdot \mathbf{o} + \mathbf{Z} \cdot \mathbf{o}^2) + \mathbf{X}^3 \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$



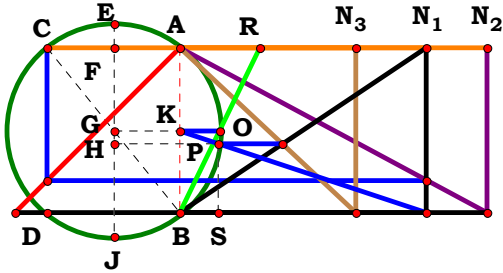
$N_1 = 1.00000$

N₂ = 3.00000

$$N_3 = 0.30000$$

R = -3.00000

$$\frac{N_1 \cdot N_3 \cdot (N_2 - N_1^2)}{N_2 \cdot N_3 \cdot (N_1^2 + 1) + (N_1^2 - N_2)} - R = 0.00000$$



$N_1 = 1.48902$ Unit. $AB := 1$ Given. $N_1 := 1.48902$ $N_2 := 1.85708$ $N_3 := 1.06757$
 $N_2 = 1.85708$
 $N_3 = 1.06757$
 $R = 0.48409$

Descriptions.

$$AC := \frac{N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

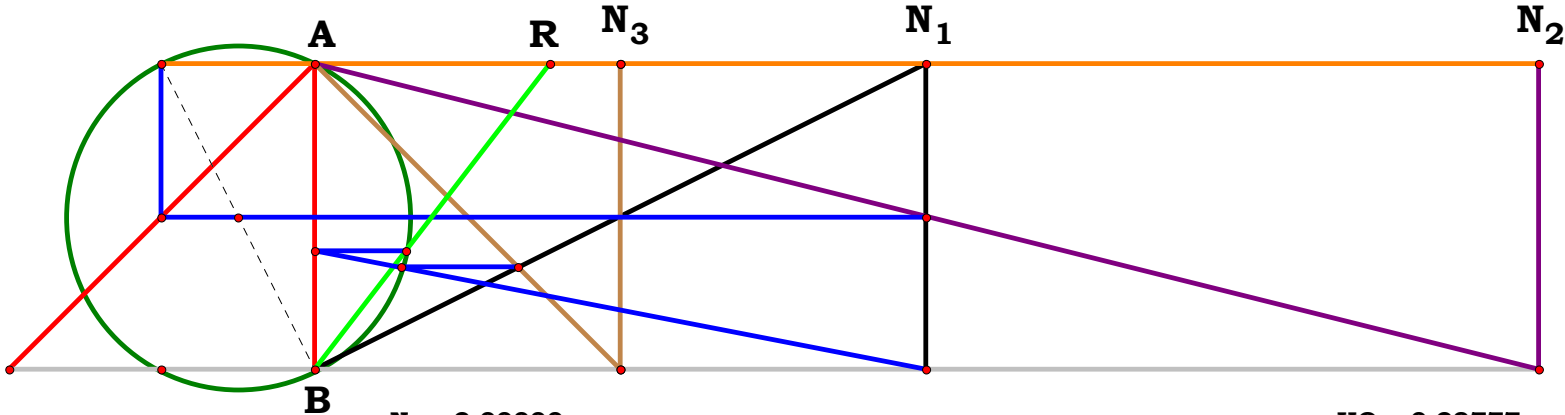
$$PS := \frac{N_3}{N_1 + N_3} \qquad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \qquad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \qquad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \qquad KO := GO - AF$$

$$R := \frac{KO}{BK} \qquad R = 0.484091$$



$N_1 = 2.00000$	$AB = 1.00000$	$EF = 0.05902$	$BS = 0.28359$	$KO = 0.29777$
$N_2 = 4.00000$	$AC = 0.50000$	$PS = 0.33333$	$BK = 0.38841$	$R - \frac{KO}{BK} = 0.00000$
$N_3 = 1.00000$	$EJ = 1.11803$	$HJ = 0.39235$	$GJ = 0.44743$	
$R = 0.76663$	$AF = 0.25000$	$HP = 0.53359$	$GO = 0.54777$	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \qquad B := \sqrt{(N_1 + N_3)^2} \qquad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$$\mathbf{AC} - \frac{\mathbf{N_1}}{\mathbf{N_2}} = 0 \qquad \mathbf{EJ} - \frac{\sqrt{\mathbf{N_1^2 + N_2^2}}}{\mathbf{N_2}} = 0 \qquad \mathbf{AF} - \frac{\mathbf{N_1}}{2 \cdot \mathbf{N_2}} = 0 \qquad \mathbf{EF} - \frac{\sqrt{\mathbf{N_1^2 + N_2^2} - \mathbf{N_2}}}{2 \cdot \mathbf{N_2}} = 0$$

$$\mathbf{PS} - \frac{\mathbf{N_3}}{\mathbf{N_1 + N_3}} = 0 \qquad \mathbf{HJ} - \frac{\mathbf{N_2 \cdot N_3} - \mathbf{N_1 \cdot N_2} + \sqrt{\mathbf{N_1^2 + N_2^2} \cdot (\mathbf{N_1 + N_3})}}{2 \cdot \mathbf{N_2} \cdot (\mathbf{N_1 + N_3})} = 0$$

$$\mathbf{HP} - \frac{\sqrt{\mathbf{N_1 \cdot (N_1^3 + 2 \cdot N_1^2 \cdot N_3 + N_1 \cdot N_3^2 + 4 \cdot N_2^2 \cdot N_3)}}}{2 \cdot \mathbf{N_2} \cdot (\mathbf{N_1 + N_3})} = 0$$

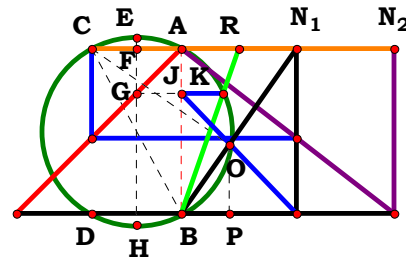
$$\mathbf{BS} - \frac{\sqrt{\mathbf{N_1 \cdot (N_1^3 + 2 \cdot N_1^2 \cdot N_3 + N_1 \cdot N_3^2 + 4 \cdot N_2^2 \cdot N_3)}} - \mathbf{N_1^2} - \mathbf{N_1 \cdot N_3}}{2 \cdot \mathbf{N_2} \cdot (\mathbf{N_1 + N_3})} = 0$$

$$\mathbf{BK} - \frac{2 \cdot \mathbf{N_1 \cdot N_3 \cdot N_2}}{2 \cdot \mathbf{N_1^2 \cdot N_2} + \mathbf{N_1^2} - \sqrt{\mathbf{N_1 \cdot (N_1^3 + 2 \cdot N_1^2 \cdot N_3 + N_1 \cdot N_3^2 + 4 \cdot N_2^2 \cdot N_3)}} + \mathbf{N_1 \cdot N_3} + 2 \cdot \mathbf{N_1 \cdot N_2 \cdot N_3}} = 0$$

$$\mathbf{GJ} - \frac{\left(\mathbf{N_2} - \sqrt{\mathbf{N_1^2 + N_2^2}}\right) \cdot \sqrt{\mathbf{N_1^4 + 2 \cdot N_1^3 \cdot N_3 + N_1^2 \cdot N_3^2 + 4 \cdot N_1 \cdot N_2^2 \cdot N_3}} + \sqrt{\mathbf{N_1^2 + N_2^2}} \cdot \left[\mathbf{N_1 \cdot (2 \cdot N_2 + 1) \cdot (N_1 + N_3)}\right] - \mathbf{N_1 \cdot N_2 \cdot (N_1 + N_3 + 2 \cdot N_1 \cdot N_2 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot \mathbf{N_2} \cdot \left(2 \cdot \mathbf{N_1^2 \cdot N_2} + \mathbf{N_1^2} - \sqrt{\mathbf{N_1^4 + 2 \cdot N_1^3 \cdot N_3 + N_1^2 \cdot N_3^2 + 4 \cdot N_1 \cdot N_2^2 \cdot N_3}} + \mathbf{N_1 \cdot N_3} + 2 \cdot \mathbf{N_1 \cdot N_2 \cdot N_3}\right)} = 0$$

$$\mathbf{GO} - \sqrt{\mathbf{GJ \cdot (EJ - GJ)}} = 0 \qquad \mathbf{KO} - (\mathbf{GO} - \mathbf{AF}) = 0$$

$$\mathbf{R} - \frac{\mathbf{KO}}{\mathbf{BK}} = 0$$



$$\begin{aligned} N_1 &= 0.69478 \\ N_2 &= 1.28562 \\ R &= 0.34426 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= .69478 & N_2 &:= 1.28562 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & Y &:= 20 & Z &:= 19 & p &:= \frac{Y}{N_1} & q &:= \frac{Z}{N_2} \end{aligned}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

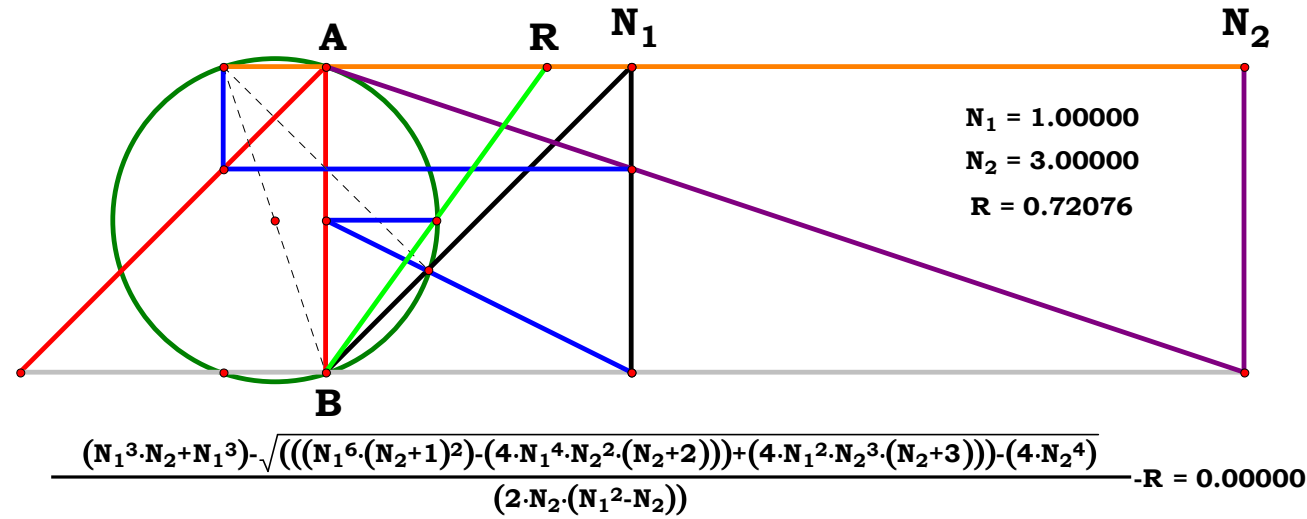
$$EF := \frac{EH - AB}{2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BO := BN_1 - ON_1$$

$$BP := \frac{N_1 \cdot BO}{BN_1} \quad OP := \frac{BP}{N_1} \quad BJ := \frac{OP \cdot N_1}{N_1 - BP}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$JK := GK - AF \quad R := \frac{JK}{BJ} \quad R = 0.34425$$



Definitions.

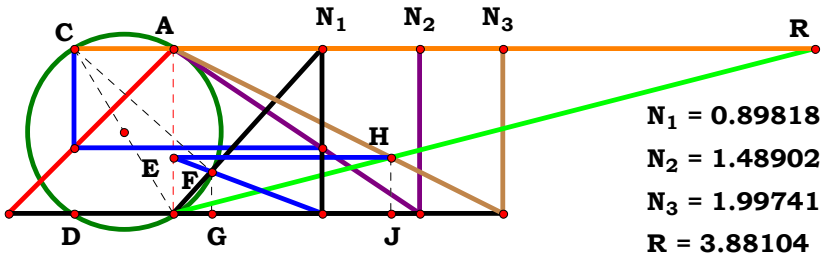
$$R - \frac{N_1^3 \cdot N_2 + N_1^3 - \sqrt{N_1^6 \cdot (N_2 + 1)^2 - 4 \cdot N_1^4 \cdot N_2^2 \cdot (N_2 + 2) + 4 \cdot N_1^2 \cdot N_2^3 \cdot (N_2 + 3) - 4 \cdot N_2^4}}{2 \cdot N_2 \cdot (N_1^2 - N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{\sqrt{4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^4 - 2 \cdot N_u^3 \cdot B \cdot (2 \cdot A^2 - B^2) - N_u^2 \cdot B^2 \cdot (8 \cdot A^2 - B^2) - 4 \cdot A^6 - B \cdot N_u \cdot (B + N_u)}}{2 \cdot A \cdot (A^2 - B \cdot N_u)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^3 \cdot q \cdot (Z + q) - \sqrt{Y^6 \cdot q^2 \cdot (Z + q)^2 - 4 \cdot Y^4 \cdot Z^2 \cdot p^2 \cdot q \cdot (Z + 2 \cdot q) + 4 \cdot Y^2 \cdot Z^3 \cdot p^4 \cdot (Z + 3 \cdot q) - 4 \cdot Z^4 \cdot p^6}}{2 \cdot Z \cdot p \cdot (Y^2 \cdot q - Z \cdot p^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .89818$ $N_2 := 1.48902$ $N_3 := 1.99741$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad BJ := N_3 \cdot (AB - BE)$$

$$R := \frac{BJ}{BE} \quad R = 3.880889$$

Definitions.

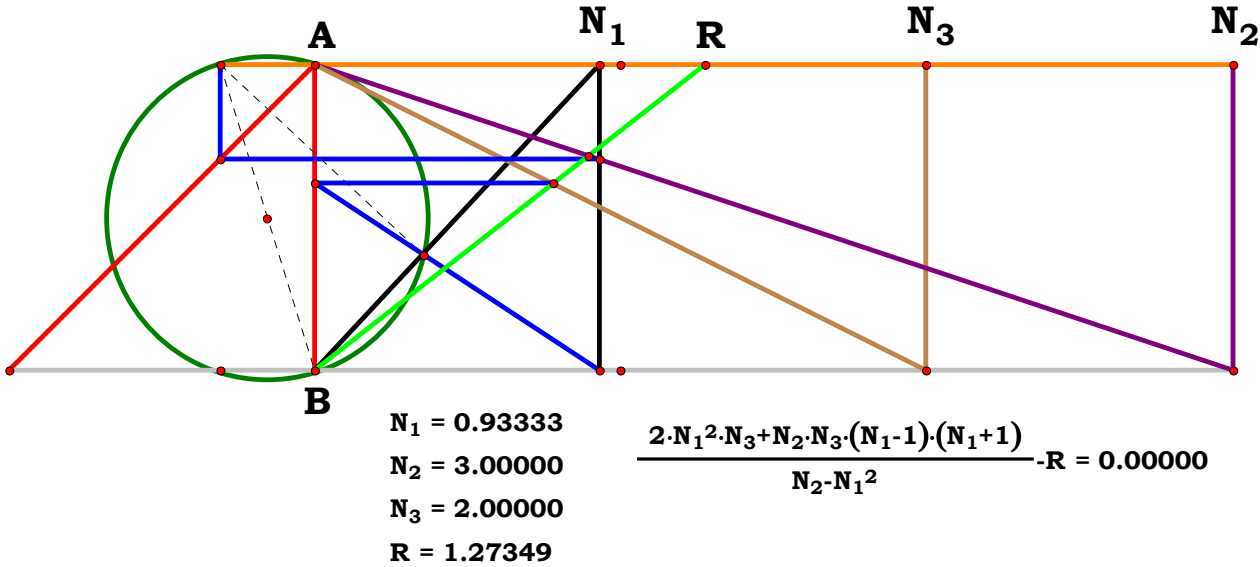
$$R - \frac{2 \cdot N_1^2 \cdot N_3 + N_2 \cdot N_3 \cdot (N_1 - 1) \cdot (N_1 + 1)}{N_2 - N_1^2} = 0$$

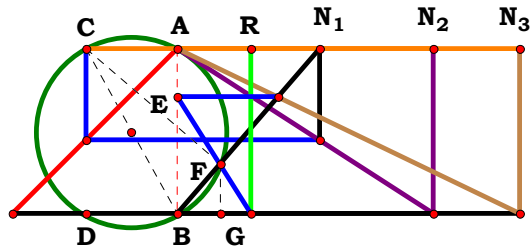
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)}{A^2 \cdot C - B \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{X^2 \cdot Y \cdot Z - Y \cdot Z \cdot o^2 + 2 \cdot X^2 \cdot Z \cdot p}{Y \cdot o^2 \cdot q - X^2 \cdot p \cdot q} = 0$$





$N_1 = 0.85944$
 $N_2 = 1.54713$
 $N_3 = 2.07489$
 $R = 0.44930$

Unit. $AB := 1$ Given. $N_1 := .85944$ $N_2 := 1.54713$ $N_3 := 2.07489$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

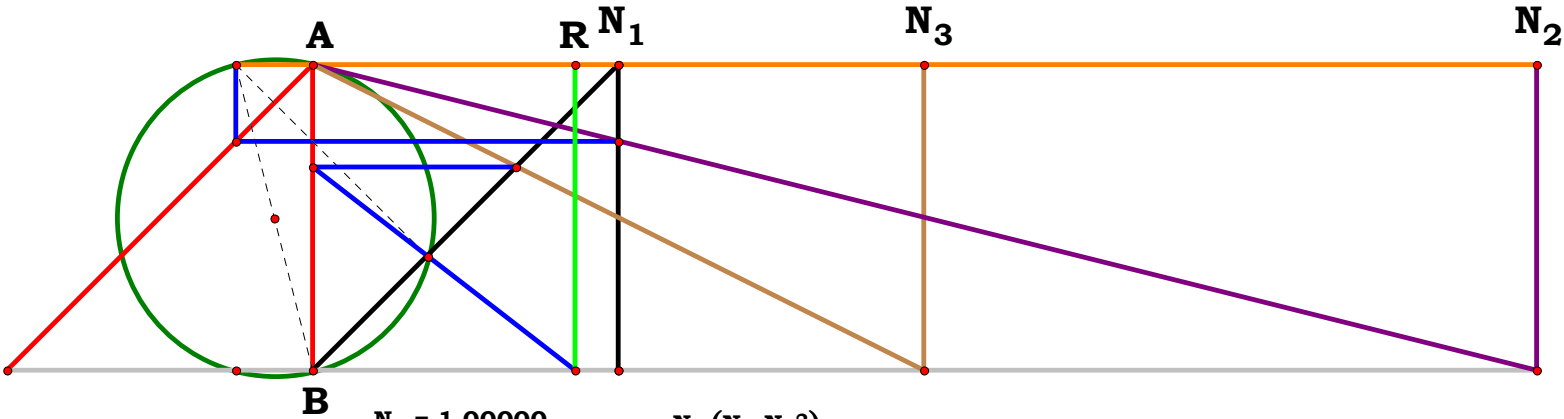
Descriptions.

$$AC := \frac{N_1}{N_2} \qquad BE := \frac{N_3}{N_1 + N_3}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \qquad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \qquad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$FG := \frac{BG}{N_1} \qquad R := \frac{BG \cdot BE}{BE - FG} \qquad R = 0.4493$$



$N_1 = 1.00000$
 $N_2 = 4.00000$
 $N_3 = 2.00000$
 $R = 0.85714$

$$\frac{N_3 \cdot (N_2 - N_1^2)}{(N_1^2 - N_2) + N_1 \cdot N_3 \cdot (N_2 + 1)} \cdot R = 0.00000$$

Definitions.

$$R - \frac{N_3 \cdot (N_2 - N_1^2)}{N_1^2 - N_2 + N_1 \cdot N_3 \cdot (N_2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 - B \cdot N_u)}{A \cdot N_u^2 - C \cdot A^2 + B \cdot N_u \cdot (A + C)} = 0$$

$$N_1 - \frac{X}{o} = 0 \qquad N_2 - \frac{Y}{p} = 0 \qquad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y \cdot o^2 - X^2 \cdot p)}{Y \cdot o \cdot (X \cdot Z - o \cdot q) + X \cdot p \cdot (X \cdot q + Z \cdot o)} = 0$$



4RST8AB5R9

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad R := \frac{N_2}{BE}$$

$$R = 2.29486$$

Definitions.

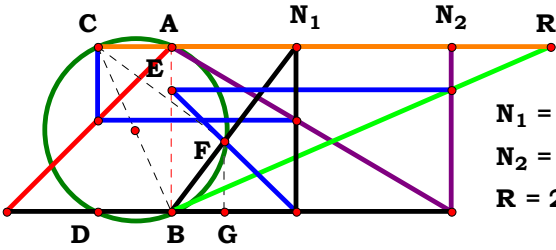
$$R - \frac{N_1^2 \cdot N_2 \cdot (N_2 + 1)}{N_2 - N_1^2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

$$R - \frac{N_u^2 \cdot (B + N_u)}{B \cdot (A^2 - B \cdot N_u)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot Z \cdot (Z + q)}{q \cdot (Z \cdot p^2 - Y^2 \cdot q)} = 0$$



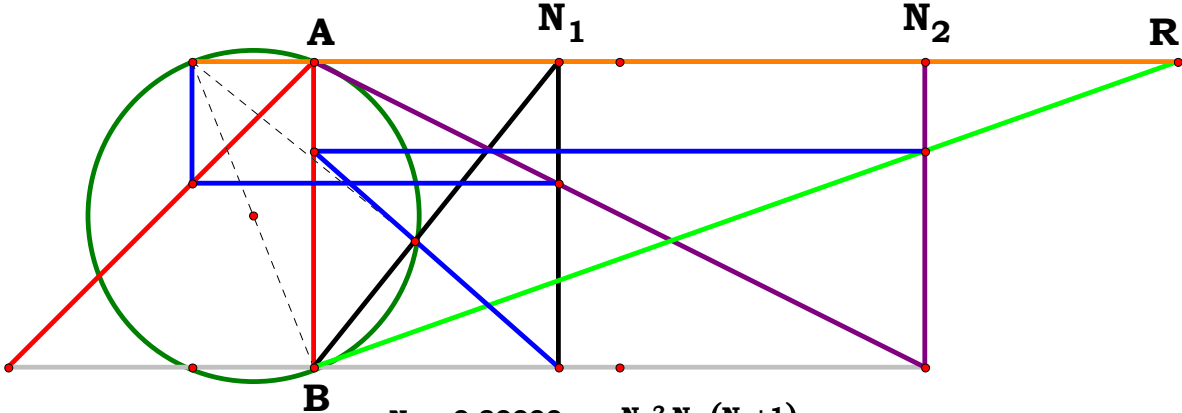
$$N_1 = 0.75290$$

$$N_2 = 1.69242$$

$$R = 2.29484$$

Unit. $AB := 1$ Given. $N_1 := .75290$ $N_2 := 1.69242$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

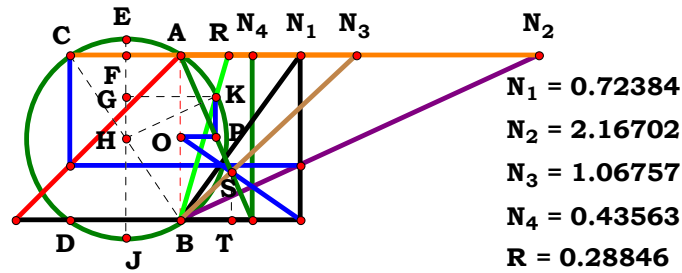


$$N_1 = 0.80000$$

$$N_2 = 2.00000$$

$$R = 2.82353$$

$$\frac{N_1^2 \cdot N_2 \cdot (N_2 + 1)}{N_2 - N_1^2} - R = 0.00000$$



Descriptions.

$$\begin{aligned} AC &:= \frac{N_2 - N_1}{N_2} & EJ &:= \sqrt{AB^2 + AC^2} & EF &:= \frac{EJ - AB}{2} \\ AF &:= \frac{AC}{2} & HK &:= \frac{EJ}{2} & ST &:= \frac{N_4}{N_4 + N_3} & BT &:= N_3 \cdot ST \\ TU &:= N_1 - BT & BO &:= \frac{ST \cdot N_1}{TU} & OP &:= N_4 - N_4 \cdot BO \\ GK &:= AF + OP & GH &:= \sqrt{HK^2 - GK^2} & EG &:= HK - GH \\ GJ &:= EJ - EG & R &:= \frac{OP}{GJ - EF} & R &= 0.288461 \end{aligned}$$

Definitions.

$$R - \frac{2 \cdot \sqrt{N_2 \cdot N_3 \cdot N_4} \cdot (N_1 - N_4)}{\sqrt{N_3^2 \cdot (N_1 - N_4)^2 \cdot (N_2 - 4 \cdot N_2 \cdot N_4^2 + 4 \cdot N_1 \cdot N_4 - 4 \cdot N_2 \cdot N_4)} + 2 \cdot N_3 \cdot N_1 \cdot N_4 \cdot (N_1 - N_4) \cdot (N_2 + 2 \cdot N_1 \cdot N_4 - 2 \cdot N_2 \cdot N_4) + N_1^2 \cdot N_2 \cdot N_4^2 + \sqrt{N_2} \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right]} = 0$$

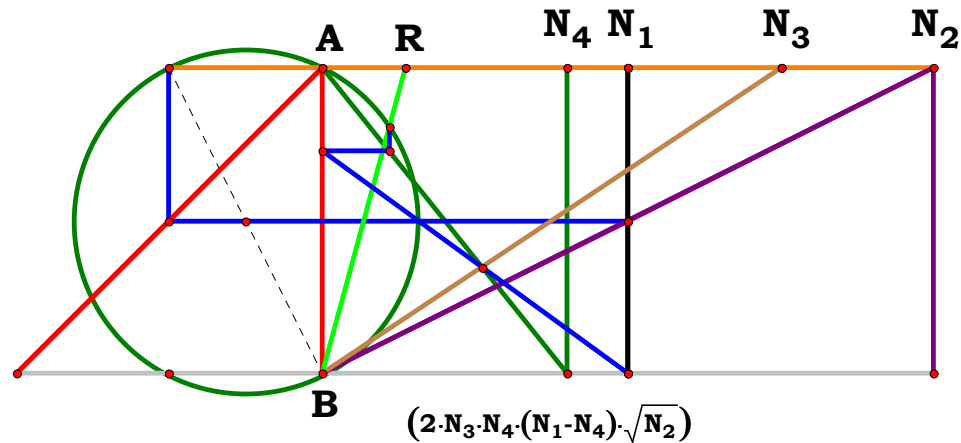
$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{2 \cdot \sqrt{X \cdot Y \cdot Z} \cdot (W \cdot p - Z \cdot m) \cdot \sqrt{m}}{\sqrt{Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (X \cdot m \cdot p^2 - 4 \cdot X \cdot Z^2 \cdot m + 4 \cdot W \cdot Z \cdot n \cdot p - 4 \cdot X \cdot Z \cdot m \cdot p)} \dots + \sqrt{m} \cdot \sqrt{X} \cdot p \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .72384 \quad N_2 := 2.16702 \quad N_3 := 1.06757 \quad N_4 := .43563$$

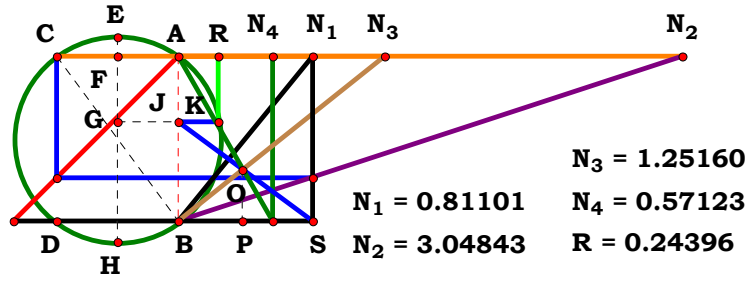
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$



$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 2.00000 \\ N_3 &= 1.50000 \\ N_4 &= 0.80000 \\ R &= 0.27088 \end{aligned}$$

$$\frac{(2 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot \sqrt{N_2})}{\sqrt{(N_3^2 \cdot (N_1 - N_4)^2 \cdot (N_2 + 4 \cdot N_4 \cdot (N_1 - N_2 - N_2 \cdot N_4))) + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1 - N_4) \cdot (N_2 + 2 \cdot N_4 \cdot (N_1 - N_2))) + (N_1^2 \cdot N_2 \cdot N_4^2) + \sqrt{N_2} \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}} - R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := .81101$ $N_2 := 3.04843$ $N_3 := 1.25160$ $N_4 := .57123$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

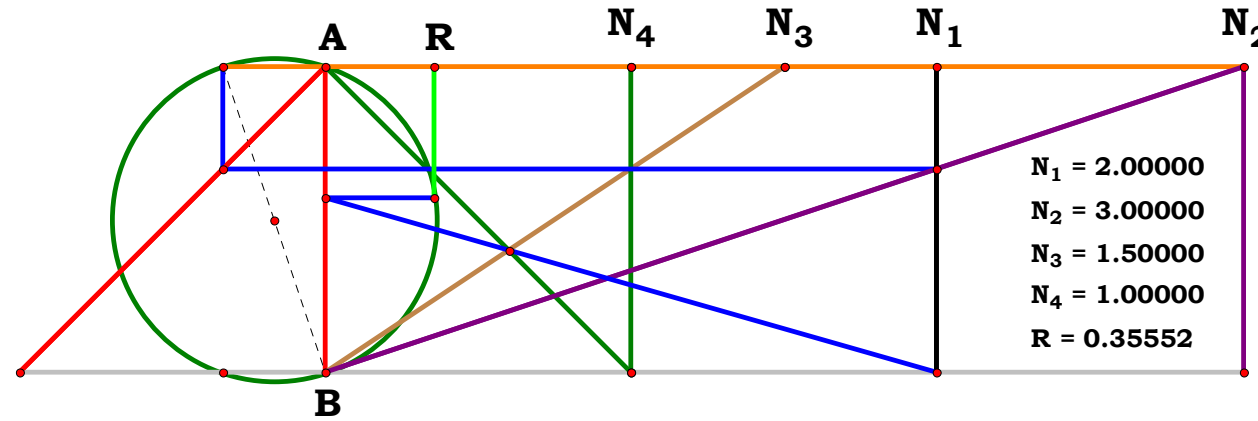
$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS}$$

$$GH := BJ + EF \quad GK := \sqrt{GH \cdot (EH - GH)}$$

$$R := GK - AF \quad R = 0.243965$$



$$\frac{\sqrt{((N_1 - N_2)^2 \cdot ((N_1 - N_4)^2 \cdot N_3^2 + N_1^2 \cdot N_4^2)) + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot ((N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1 - N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{2 \cdot N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)} - R = 0.00000$$

Definitions.

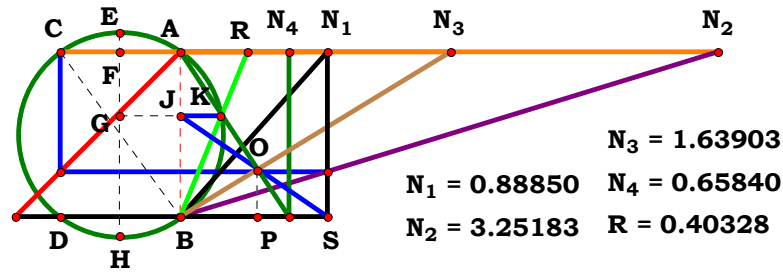
$$R - \frac{\sqrt{(N_1 - N_2)^2 \cdot ((N_1 - N_4)^2 \cdot N_3^2 + N_1^2 \cdot N_4^2) + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot ((N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1 - N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}}{2 \cdot N_2 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{2 \cdot A \cdot (C - A + D)} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (W \cdot n - X \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot Z^2 \cdot o^2 \cdot (W \cdot n - X \cdot m)^2 + (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m) \cdot (W \cdot n - X \cdot m)}}{2 \cdot X \cdot m \cdot (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .88850$ $N_2 := 3.25183$ $N_3 := 1.63903$ $N_4 := .65840$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$W := 20 \quad X := 19 \quad Y := 18 \quad Z := 17 \quad m := \frac{W}{N_1} \quad n := \frac{X}{N_2} \quad o := \frac{Y}{N_3} \quad p := \frac{Z}{N_4}$$

Descriptions.

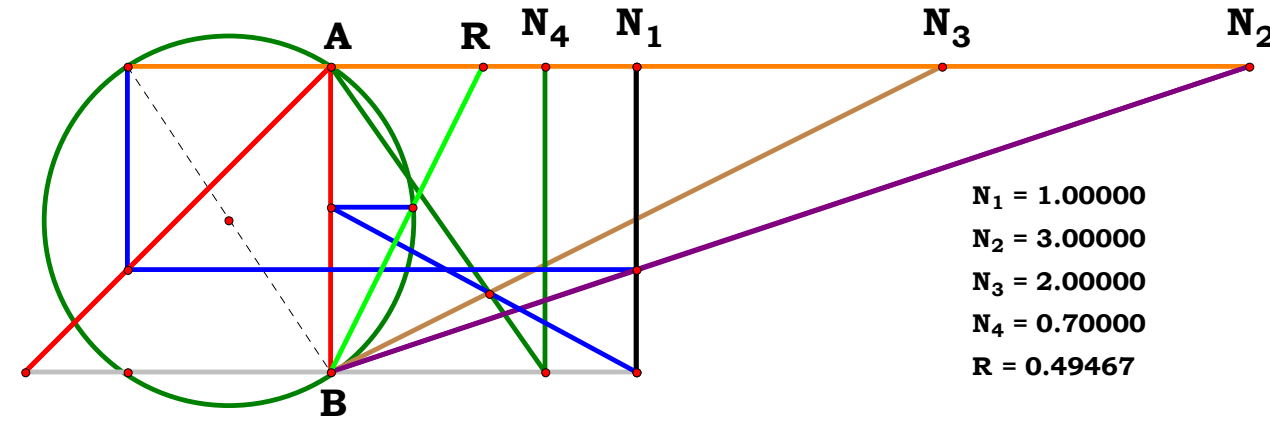
$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad OP := \frac{N_4}{N_3 + N_4} \quad BP := N_3 \cdot OP$$

$$PS := N_1 - BP \quad BJ := \frac{OP \cdot N_1}{PS} \quad GH := BJ + EF$$

$$EG := EH - GH \quad GK := \sqrt{EG \cdot GH}$$

$$R := \frac{GK - AF}{BJ} \quad R = 0.403288$$



$$\frac{\sqrt{((N_3^2 \cdot (N_1 - N_4)^2 + N_1^2 \cdot N_4^2) \cdot (N_1 - N_2)^2) + (2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot ((N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4)) + (N_1 - N_2) \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4))}}{2 \cdot N_1 \cdot N_2 \cdot N_4} - R = 0.00000$$

Definitions.

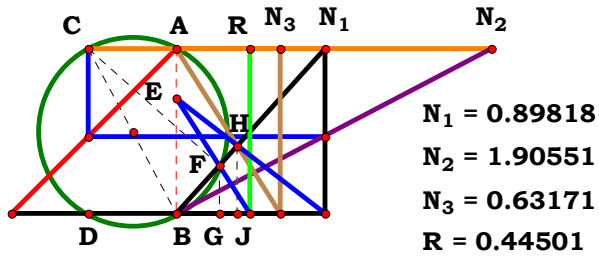
$$R - \frac{\sqrt{[N_3^2 \cdot (N_1 - N_4)^2 + N_1^2 \cdot N_4^2] \cdot (N_1 - N_2)^2 + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot (N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_1 - N_4) + (N_1 - N_2) \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}}{2 \cdot N_1 \cdot N_2 \cdot N_4} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_4 - \frac{N_u}{D} = 0$$

$$R - \frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{2 \cdot A \cdot C} = 0$$

$$N_1 - \frac{W}{m} = 0 \quad N_2 - \frac{X}{n} = 0 \quad N_3 - \frac{Y}{o} = 0 \quad N_4 - \frac{Z}{p} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot (W \cdot p - Z \cdot m)^2 \cdot (W \cdot n - X \cdot m)^2 + 2 \cdot Y \cdot W \cdot Z \cdot o \cdot (W^2 \cdot n^2 - 2 \cdot W \cdot X \cdot m \cdot n + 3 \cdot X^2 \cdot m^2) \cdot (W \cdot p - Z \cdot m) + W^2 \cdot Z^2 \cdot o^2 \cdot (W \cdot n - X \cdot m)^2 + (W \cdot Y \cdot p + W \cdot Z \cdot o - Y \cdot Z \cdot m) \cdot (W \cdot n - X \cdot m)}}{2 \cdot W \cdot X \cdot Z \cdot m \cdot o} = 0$$



Unit. $AB := 1$ Given. $N_1 := .89818$ $N_2 := 1.90551$ $N_3 := .63171$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad HJ := \frac{N_3}{N_1 + N_3} \quad BJ := N_1 \cdot HJ$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{HJ \cdot N_1}{N_1 - BJ} \quad R := \frac{BE \cdot BG}{BE - FG} \quad R = 0.445008$$

Definitions.

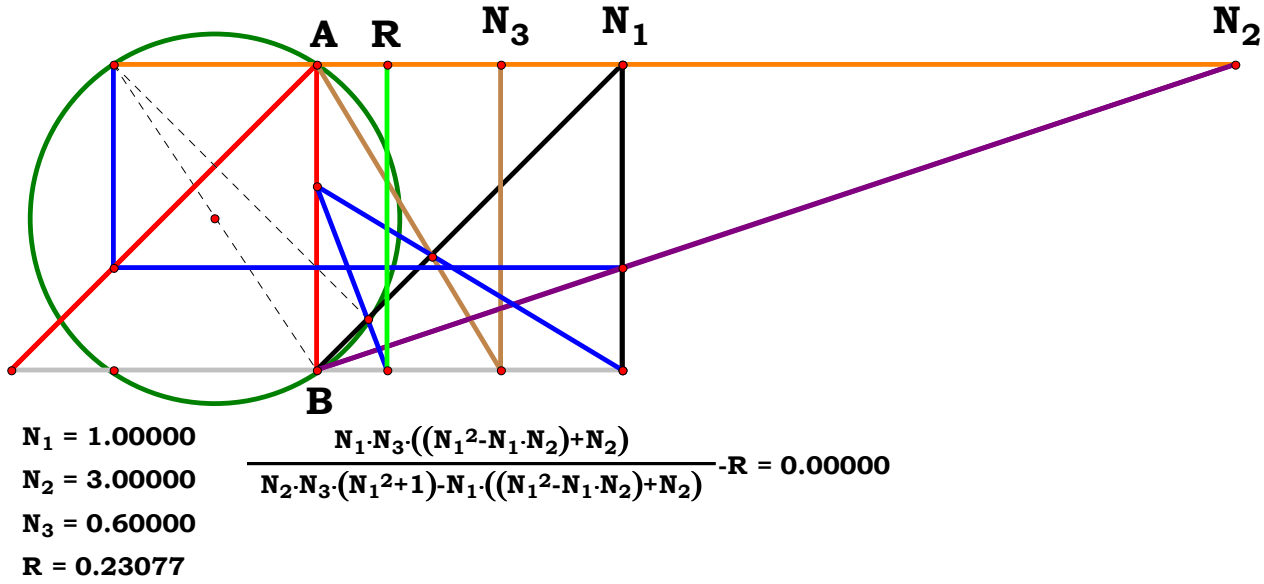
$$R - \frac{N_1 \cdot N_3 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)}{N_2 \cdot N_3 \cdot (N_1^2 + 1) - N_1 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)} = 0$$

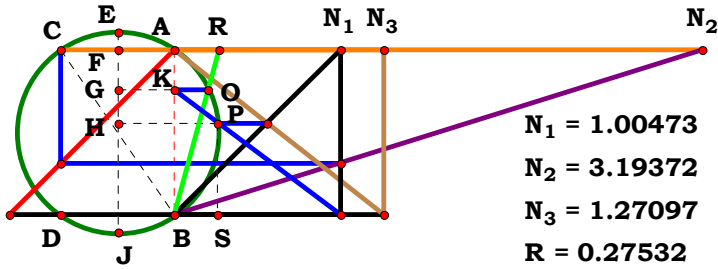
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot [A^2 - N_u \cdot (A - B)]}{A^3 - C \cdot A^2 + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{N_1 \cdot N_3 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)}{N_2 \cdot N_3 \cdot (N_1^2 + 1) - N_1 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)} = 0$$





Unit. $AB := 1$ Given. $N_1 := 1.00473$ $N_2 := 3.19372$ $N_3 := 1.27097$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

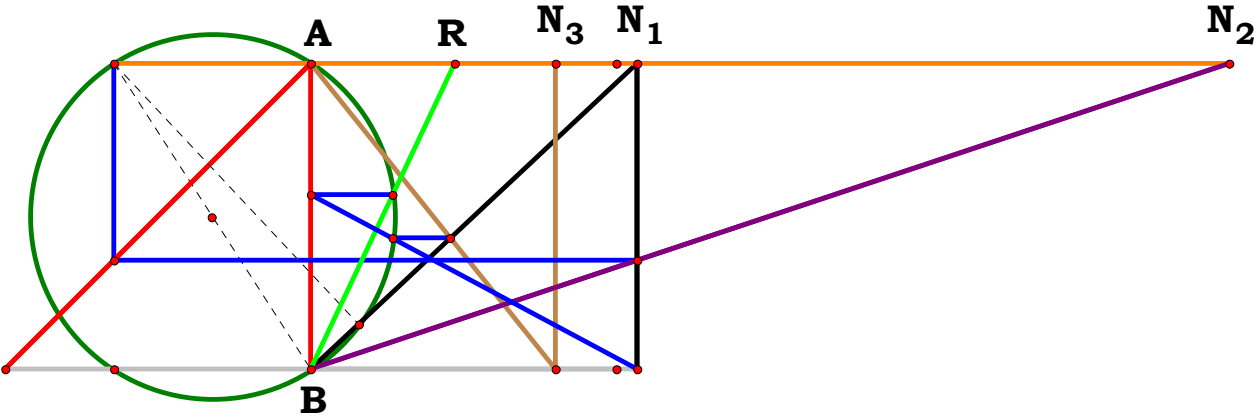
$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

$$PS := \frac{N_3}{N_1 + N_3} \qquad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \qquad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \qquad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \qquad KO := GO - AF$$



$$R := \frac{KO}{BK} \qquad R = 0.275323$$

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \qquad B := \sqrt{(N_1 + N_3)^2} \qquad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$$\mathbf{AC} - \frac{\mathbf{N_2} - \mathbf{N_1}}{\mathbf{N_2}} = \mathbf{0} \quad \mathbf{EJ} - \frac{\sqrt{\mathbf{N_1}^2 - 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + 2 \cdot \mathbf{N_2}^2}}{\mathbf{N_2}} = \mathbf{0}$$

$$\mathbf{AF} - \frac{\mathbf{N_2} - \mathbf{N_1}}{2 \cdot \mathbf{N_2}} = \mathbf{0} \quad \mathbf{EF} - \frac{\sqrt{\mathbf{N_1}^2 - 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + 2 \cdot \mathbf{N_2}^2} - \mathbf{N_2}}{2 \cdot \mathbf{N_2}} = \mathbf{0}$$

$$\mathbf{PS} - \frac{\mathbf{N_3}}{\mathbf{N_1} + \mathbf{N_3}} = \mathbf{0} \quad \mathbf{HJ} - \frac{\sqrt{\mathbf{N_1}^2 - 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} + 2 \cdot \mathbf{N_2}^2} \cdot (\mathbf{N_1} + \mathbf{N_3}) - \mathbf{N_1} \cdot \mathbf{N_2} + \mathbf{N_2} \cdot \mathbf{N_3}}{2 \cdot \mathbf{N_2} \cdot (\mathbf{N_1} + \mathbf{N_3})} = \mathbf{0}$$

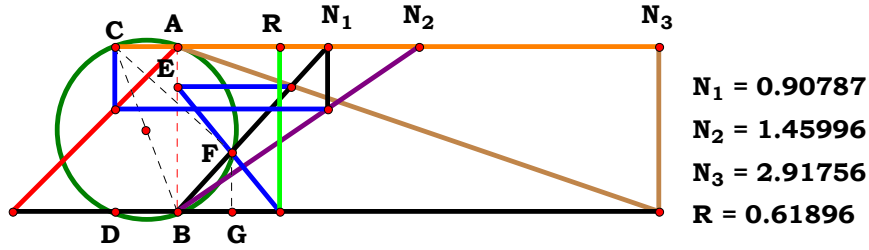
$$\mathbf{HP} - \frac{\sqrt{\mathbf{N_1}^4 - 2 \cdot \mathbf{N_1}^3 \cdot \mathbf{N_2} + 2 \cdot \mathbf{N_1}^3 \cdot \mathbf{N_3} + \mathbf{N_1}^2 \cdot \mathbf{N_2}^2 - 4 \cdot \mathbf{N_1}^2 \cdot \mathbf{N_2} \cdot \mathbf{N_3} + \mathbf{N_1}^2 \cdot \mathbf{N_3}^2 + 6 \cdot \mathbf{N_1} \cdot \mathbf{N_2}^2 \cdot \mathbf{N_3} - 2 \cdot \mathbf{N_1} \cdot \mathbf{N_2} \cdot \mathbf{N_3}^2 + \mathbf{N_2}^2 \cdot \mathbf{N_3}^2}}{2 \cdot \mathbf{N_2} \cdot (\mathbf{N_1} + \mathbf{N_3})} = \mathbf{0}$$

$$\mathbf{BS} - (\mathbf{HP} - \mathbf{AF}) = \mathbf{0}$$

$$\mathbf{BK} - \frac{\mathbf{PS} \cdot \mathbf{N_1}}{\mathbf{N_1} - \mathbf{BS}} = \mathbf{0} \quad \mathbf{GJ} - (\mathbf{BK} + \mathbf{EF}) = \mathbf{0}$$

$$\mathbf{GO} - \sqrt{\mathbf{GJ} \cdot (\mathbf{EJ} - \mathbf{GJ})} = \mathbf{0} \quad \mathbf{KO} - (\mathbf{GO} - \mathbf{AF}) = \mathbf{0}$$

$$\mathbf{R} - \frac{\mathbf{KO}}{\mathbf{BK}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := .90787$ $N_2 := 1.45996$ $N_3 := 2.91756$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BE := \frac{N_3}{N_1 + N_3}$$

$$BN_1 := \sqrt{AB^2 + N_1^2} \quad FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BF := BN_1 - FN_1 \quad BG := \frac{N_1 \cdot BF}{BN_1}$$

$$FG := \frac{BG}{N_1} \quad R := \frac{BG \cdot BE}{BE - FG} \quad R = 0.618963$$

Definitions.

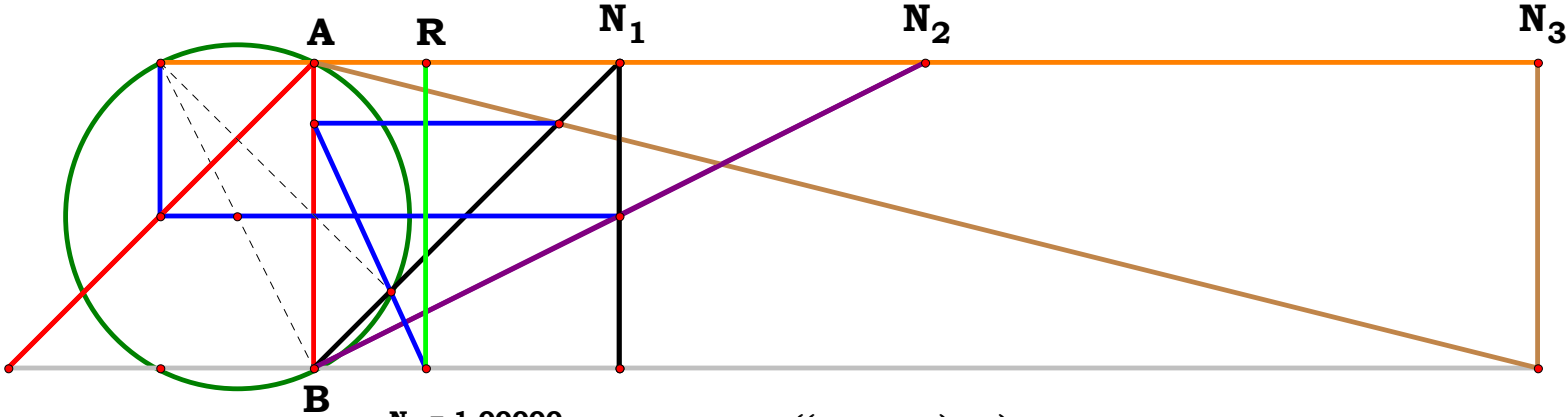
$$R - \frac{N_3 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)}{N_3 \cdot (N_2 - N_1 + N_1 \cdot N_2) + N_1 \cdot N_2 - N_1^2 - N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A^2 - N_u \cdot A + B \cdot N_u)}{A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

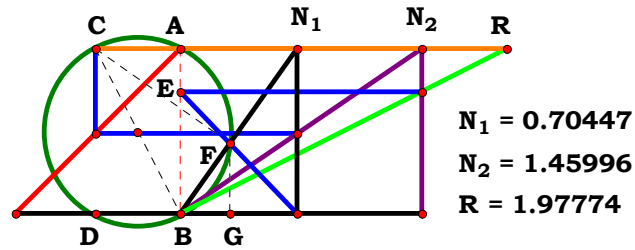
$$R - \frac{Z \cdot (p \cdot X^2 - Y \cdot X \cdot o + Y \cdot o^2)}{Y \cdot o \cdot (X \cdot Z + X \cdot q + Z \cdot o - o \cdot q) - X \cdot p \cdot (X \cdot q + Z \cdot o)} = 0$$



$$\frac{N_3 \cdot ((N_1^2 - N_1 \cdot N_2) + N_2)}{(N_3 \cdot ((N_2 - N_1) + N_1 \cdot N_2) + N_1 \cdot N_2) - N_1^2 - N_2} \cdot R = 0.00000$$



4RST8AB6R9



Unit. $AB := 1$ Given. $N_1 := .70447$ $N_2 := 1.45996$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad Y := 20 \quad Z := 19 \quad p := \frac{Y}{N_1} \quad q := \frac{Z}{N_2}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BE := \frac{FG \cdot N_1}{N_1 - BG} \quad R := \frac{N_2}{BE}$$

$R = 1.97774$

Definitions.

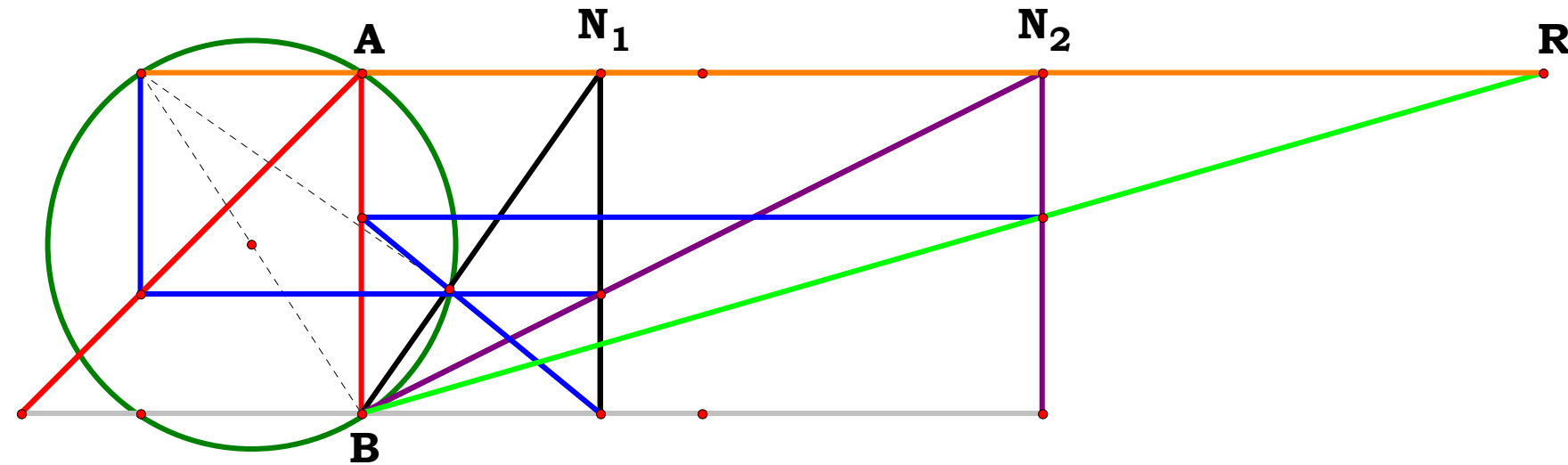
$$R - \frac{N_1 \cdot N_2 \cdot (N_2 - N_1 + N_1 \cdot N_2)}{N_1^2 - N_1 \cdot N_2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0$$

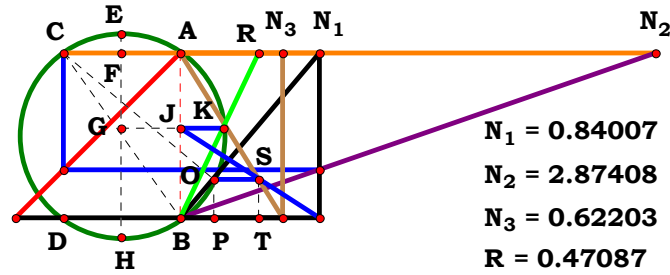
$$R - \frac{N_u^2 \cdot (A - B + N_u)}{B \cdot (A^2 - N_u \cdot A + B \cdot N_u)} = 0$$

$$N_1 - \frac{Y}{p} = 0 \quad N_2 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot Z \cdot (Y \cdot Z - Y \cdot q + Z \cdot p)}{q \cdot (q \cdot Y^2 - Z \cdot Y \cdot p + Z \cdot p^2)} = 0$$



$N_1 = 0.70000$	$\frac{N_1 \cdot N_2 \cdot ((N_2 - N_1) + N_1 \cdot N_2)}{(N_1^2 - N_1 \cdot N_2) + N_2} - R = 0.00000$
$N_2 = 2.00000$	
$R = 3.46789$	



Unit. $AB := 1$ Given. $N_1 := .84007$ $N_2 := 2.87408$ $N_3 := .62203$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

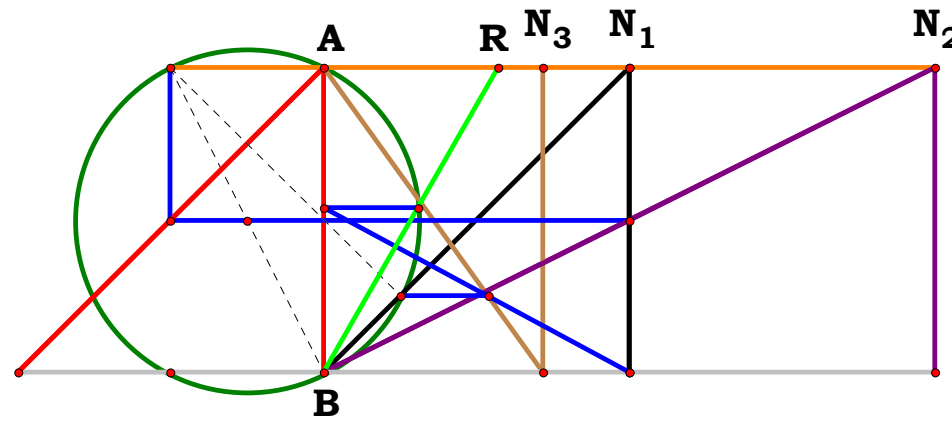
$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad BN_1 := \sqrt{AB^2 + N_1^2} \quad ON_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1}$$

$$BO := BN_1 - ON_1 \quad BP := \frac{N_1 \cdot BO}{BN_1} \quad OP := \frac{BP}{N_1}$$

$$BT := N_3 \cdot (AB - OP) \quad BJ := \frac{OP \cdot N_1}{N_1 - BT} \quad GH := BJ + EF$$

$$GK := \sqrt{GH \cdot (EH - GH)} \quad R := \frac{GK - AF}{BJ} \quad R = 0.470865$$



$N_1 = 1.00000$
 $N_2 = 2.00000$
 $N_3 = 0.71624$
 $R = 0.56940$

$$R = \frac{\sqrt{((N_3^2 \cdot (N_1 - N_2)^2 \cdot ((N_2 - N_1) + N_1 \cdot N_2)^2) + (N_2^2 \cdot ((N_2 - N_1 - N_1^2 \cdot N_2) + N_1^3 + 2 \cdot N_1 \cdot N_2)^2)) - (2 \cdot N_2 \cdot N_3 \cdot ((N_2 - N_1) + N_1 \cdot N_2) \cdot ((N_2^2 \cdot ((N_1^2 - 2 \cdot N_1) + 3) - (2 \cdot N_1 \cdot N_2 \cdot ((N_1^2 - N_1) + 1))) + (N_1^2 \cdot (N_1^2 + 1)))) + (N_1 - N_2) \cdot ((N_2 + N_1^2 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3))}{(2 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + N_2))} - R = 0.00000$$

Definitions.

$$R = \frac{\sqrt{N_3^2 \cdot (N_1 - N_2)^2 \cdot (N_2 - N_1 + N_1 \cdot N_2)^2 + N_2^2 \cdot (N_2 - N_1 - N_1^2 \cdot N_2 + N_1^3 + 2 \cdot N_1 \cdot N_2)^2 \dots + (N_1 - N_2) \cdot (N_2 + N_1^2 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3)}}{2 \cdot N_2 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)} + \frac{N_2^2 \cdot (N_2 - N_1 - N_1^2 \cdot N_2 + N_1^3 + 2 \cdot N_1 \cdot N_2)^2 \dots + (N_1 - N_2) \cdot (N_2 + N_1^2 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3)}{2 \cdot N_2 \cdot (N_1^2 - N_1 \cdot N_2 + N_2)} = 0$$

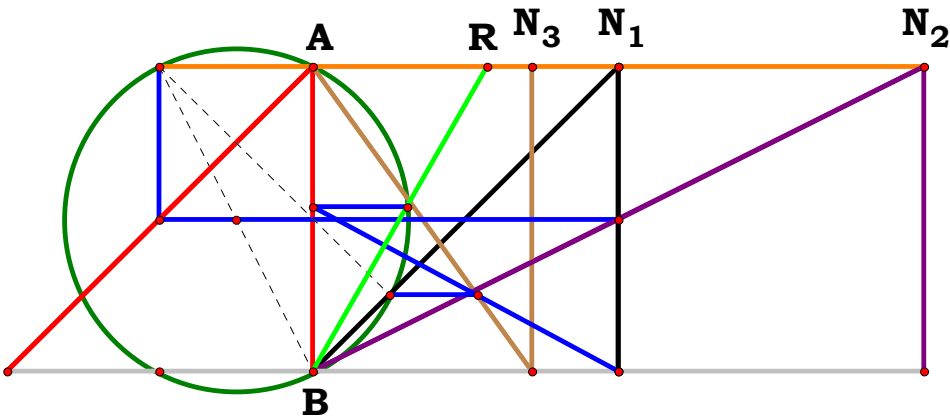
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R = \frac{(A - B) \cdot [N_u^2 \cdot (A - C) + N_u \cdot A \cdot (A - B) - A^2 \cdot C] + \sqrt{C^2 \cdot [A^2 \cdot (A - B + 2 \cdot N_u) - N_u^2 \cdot (A - B)]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot (A - B + N_u)^2 \dots + (-2 \cdot C \cdot A \cdot N_u \cdot (A - B + N_u) \cdot [N_u^2 \cdot (A - B)^2 - 2 \cdot N_u \cdot A^2 \cdot (A - B) + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)]}}{2 \cdot A \cdot C \cdot (A^2 - N_u \cdot A + B \cdot N_u)} = 0$$



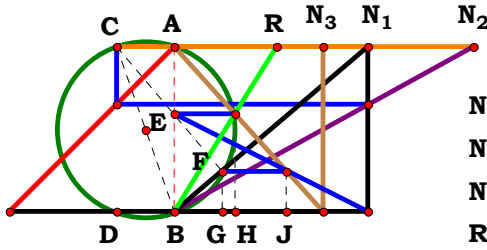
$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{\begin{aligned} &Z^2 \cdot o^2 \cdot (X \cdot Y - X \cdot p + Y \cdot o)^2 \cdot (X \cdot p - Y \cdot o)^2 \dots \\ &+ -2 \cdot Z \cdot Y \cdot o \cdot q \cdot (X \cdot Y - X \cdot p + Y \cdot o) \cdot \left(X^4 \cdot p^2 - 2 \cdot X^3 \cdot Y \cdot o \cdot p + X^2 \cdot Y^2 \cdot o^2 \dots \right. \\ &\quad \left. + 2 \cdot X^2 \cdot Y \cdot o^2 \cdot p + X^2 \cdot o^2 \cdot p^2 - 2 \cdot X \cdot Y^2 \cdot o^3 - 2 \cdot X \cdot Y \cdot o^3 \cdot p + 3 \cdot Y^2 \cdot o^4 \right) \dots \\ &+ Y^2 \cdot q^2 \cdot (Y \cdot o^3 + X^3 \cdot p + 2 \cdot X \cdot Y \cdot o^2 - X^2 \cdot Y \cdot o - X \cdot o^2 \cdot p)^2 \\ &+ Y \cdot q \cdot (X^2 + o^2) \cdot (X \cdot p - Y \cdot o) \end{aligned}}{2 \cdot Y \cdot o \cdot q \cdot (p \cdot X^2 - Y \cdot X \cdot o + Y \cdot o^2)} = 0$$



N₁ = 1.00000
N₂ = 2.00000
N₃ = 0.71624
R = 0.56940

$$\frac{\sqrt{((N_3^2 \cdot (N_1 - N_2)^2 \cdot ((N_2 - N_1) + N_1 \cdot N_2)^2) + (N_2^2 \cdot ((N_2 - N_1 - N_1^2 \cdot N_2) + N_1^3 + 2 \cdot N_1 \cdot N_2)^2)) - (2 \cdot N_2 \cdot N_3 \cdot ((N_2 - N_1) + N_1 \cdot N_2) \cdot ((N_2^2 \cdot ((N_1^2 \cdot 2 \cdot N_1) + 3) - (2 \cdot N_1 \cdot N_2 \cdot ((N_1^2 - N_1) + 1))) + (N_1^2 \cdot (N_1^2 + 1)))) + (N_1 - N_2) \cdot ((N_2 + N_1^2 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3 - N_1 \cdot N_2 \cdot N_3)}}{(2 \cdot N_2 \cdot ((N_1^2 - N_1 \cdot N_2) + N_2))} - R = 0.00000$$



$$\begin{aligned} N_1 &:= 1.16939 \\ N_2 &:= 1.80865 \\ N_3 &:= 0.90291 \\ R &:= 0.62452 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.16939 \quad N_2 := 1.80865 \quad N_3 := .90291$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BJ := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BJ}$$

$$BH := N_3 \cdot (AB - BE) \quad R := \frac{BH}{BE} \quad R = 0.624537$$

Definitions.

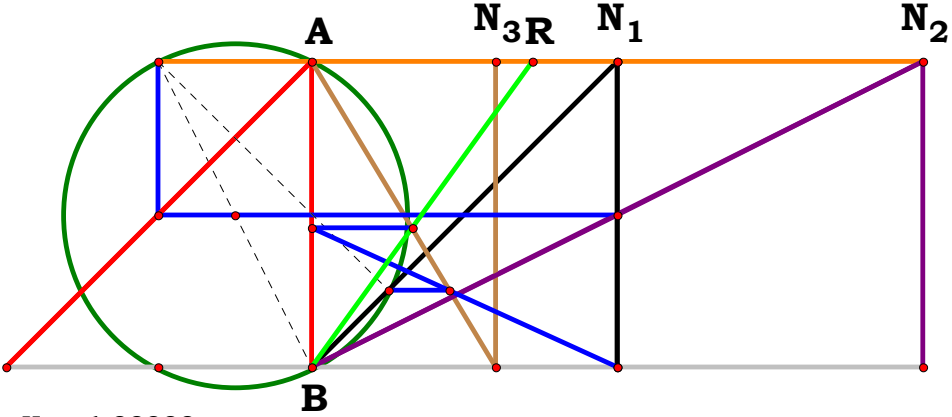
$$R - \frac{N_3 \cdot (N_1 - N_3) \cdot (N_2 - N_1 + N_1 \cdot N_2)}{N_1^2 - N_1 \cdot N_2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u^2 \cdot (A - C) \cdot (B - A - N_u)}{C^2 \cdot [A^2 - N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot q - Z \cdot o) \cdot (X \cdot Y - X \cdot p + Y \cdot o)}{q^2 \cdot (p \cdot X^2 - Y \cdot X \cdot o + Y \cdot o^2)} = 0$$

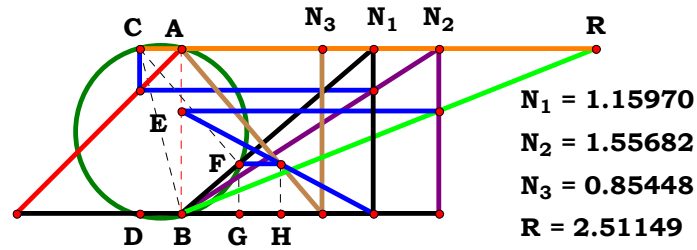


$$\begin{aligned} N_1 &= 1.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.60000 \\ R &= 0.72000 \end{aligned}$$

$$\frac{N_3 \cdot (N_1 - N_3) \cdot ((N_2 - N_1) + N_1 \cdot N_2)}{(N_1^2 - N_1 \cdot N_2) + N_2} \cdot R = 0.00000$$



4RST8AB6R12



Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 1.55682$ $N_3 := .85448$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BN_1 := \sqrt{AB^2 + N_1^2}$$

$$FN_1 := \frac{N_1 \cdot (N_1 + AC)}{BN_1} \quad BF := BN_1 - FN_1$$

$$BG := \frac{N_1 \cdot BF}{BN_1} \quad FG := \frac{BG}{N_1}$$

$$BH := N_3 \cdot (AB - FG) \quad BE := \frac{FG \cdot N_1}{N_1 - BH}$$

$$R := \frac{N_2}{BE} \quad R = 2.511501$$

Definitions.

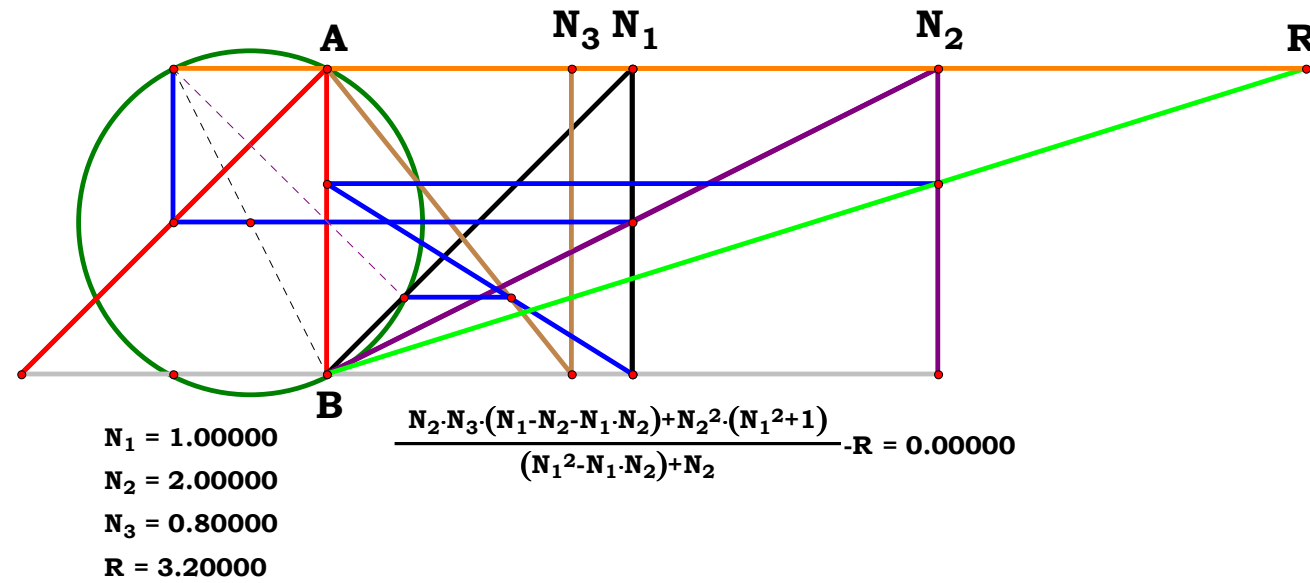
$$R - \frac{N_2 \cdot N_3 \cdot (N_1 - N_2 - N_1 \cdot N_2) + N_2^2 \cdot (N_1^2 + 1)}{N_1^2 - N_1 \cdot N_2 + N_2} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)}{B \cdot C \cdot [A^2 - N_u \cdot (A - B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y^2 \cdot q \cdot (X^2 + o^2) - Y \cdot Z \cdot o \cdot (X \cdot Y - X \cdot p + Y \cdot o)}{p \cdot q \cdot (p \cdot X^2 - Y \cdot X \cdot o + Y \cdot o^2)} = 0$$





Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad AS := \frac{GK - AF}{AB - FG}$$

$$R := \frac{AS^2}{AS^2 + 1} \quad R = 0.132516$$

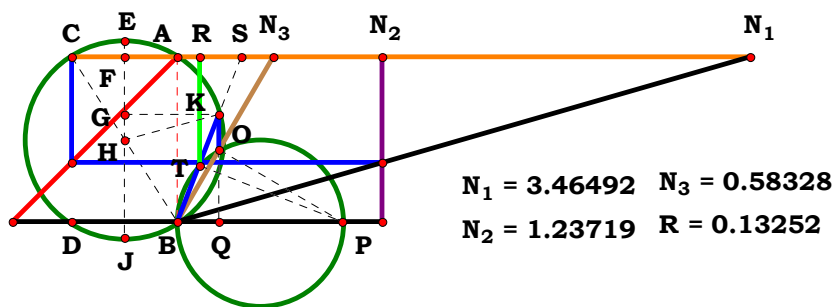
Definitions.

$$R - \frac{2 \cdot N_3^4 \cdot \sqrt{(N_3^2 + 1)^2}}{(N_3^2 + 1) \cdot \left[\sqrt{N_3^4 + 2 \cdot N_3^2 + 1} \cdot (N_3^2 - 2 \cdot AC \cdot N_3^2 + 1) + \sqrt{2 \cdot N_3^2 - 3 \cdot N_3^4 - 4 \cdot AC \cdot N_3^2 - 4 \cdot AC \cdot N_3^4 + 1} \cdot (N_3^2 + 1) \right]} = 0$$

$$R - \frac{2 \cdot N_1 \cdot N_3^4}{(N_3^2 + 1) \cdot \left[N_1 - N_1 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3^2 + \sqrt{N_1} \cdot \sqrt{N_1 - 2 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_3^4 \cdot (4 \cdot N_2 - 7 \cdot N_1)} \right]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

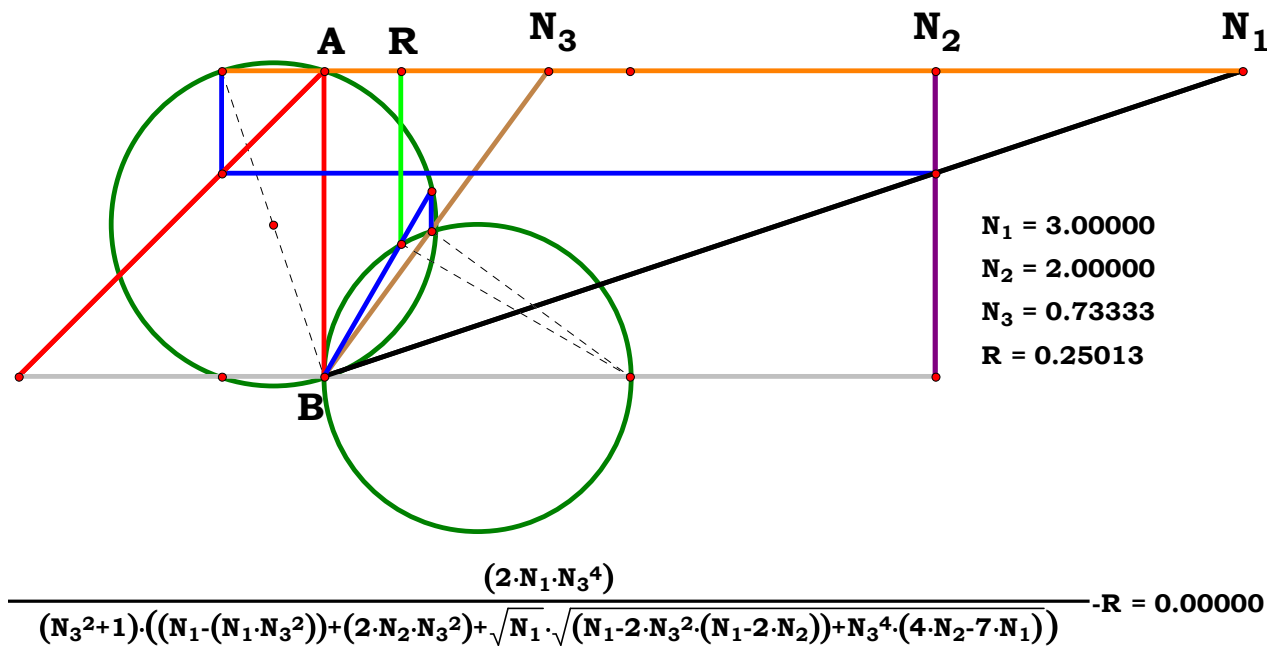
$$R - \frac{2 \cdot B \cdot (\sqrt{N_u})^9 \cdot \sqrt{A \cdot B}}{(C^2 + N_u^2) \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 + 2 \cdot A \cdot N_u^2 - B \cdot N_u^2) + \sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot (B - 2 \cdot A)} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.46492$ $N_2 := 1.23719$ $N_3 := .58328$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

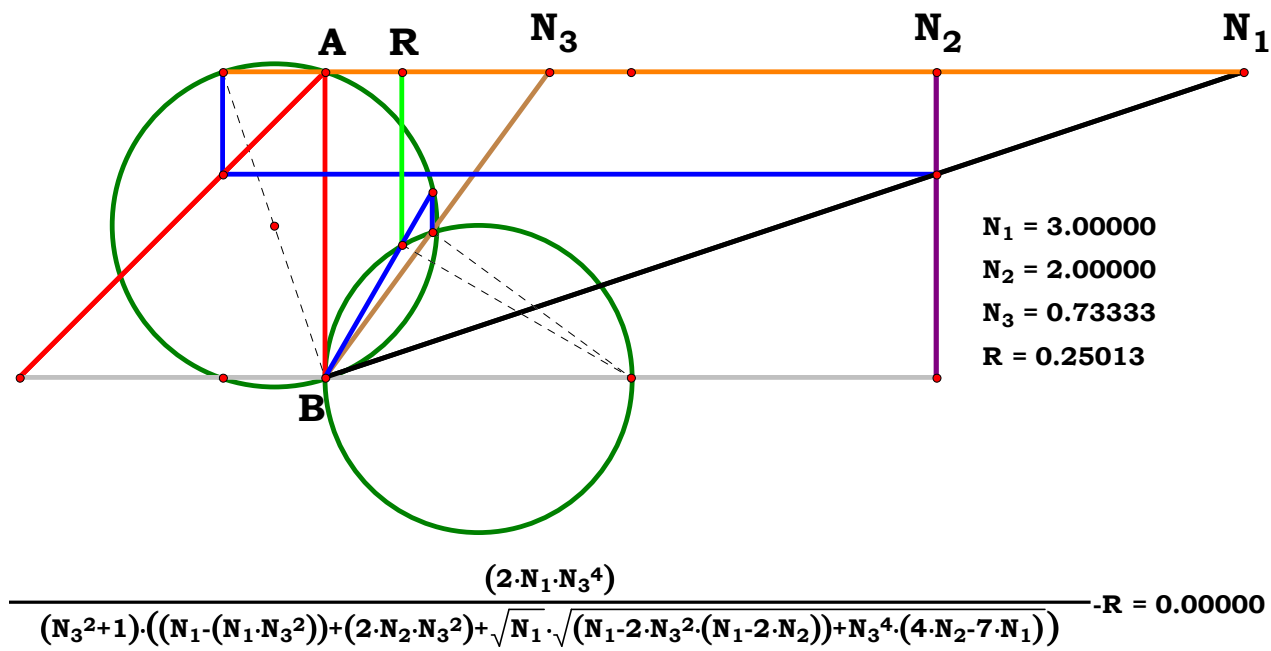
$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

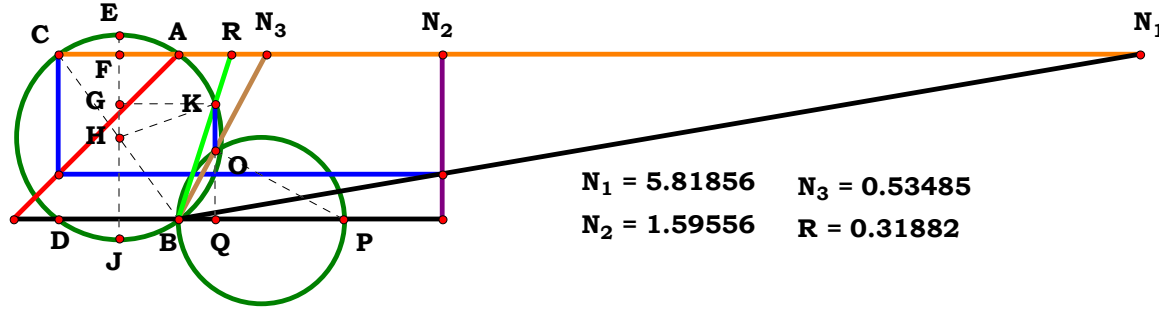




$$N_1-\frac{X}{o}=0 \quad N_2-\frac{Y}{p}=0 \quad N_3-\frac{Z}{q}=0 \qquad R=0.132516$$

$$R-\frac{2\cdot X\cdot Z^4\cdot p\cdot \sqrt{o\cdot p}}{(Z^2+q^2)\cdot \left[\sqrt{X}\cdot \sqrt{o\cdot p}\cdot \sqrt{4\cdot Y\cdot Z^2\cdot o\cdot (Z^2+q^2)}-X\cdot p\cdot (7\cdot Z^4+2\cdot Z^2\cdot q^2-q^4)-\sqrt{o\cdot p}\cdot (X\cdot Z^2\cdot p-2\cdot Y\cdot Z^2\cdot o-X\cdot p\cdot q^2)\right]}=0$$





$$\begin{aligned} N_1 &:= 5.81856 & N_3 &:= 0.53485 \\ N_2 &:= 1.59556 & R &:= 0.31882 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 5.81856 \quad N_2 := 1.59556 \quad N_3 := .53485$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad R := \frac{GK - AF}{AB - FG}$$

$$R = 0.318811$$

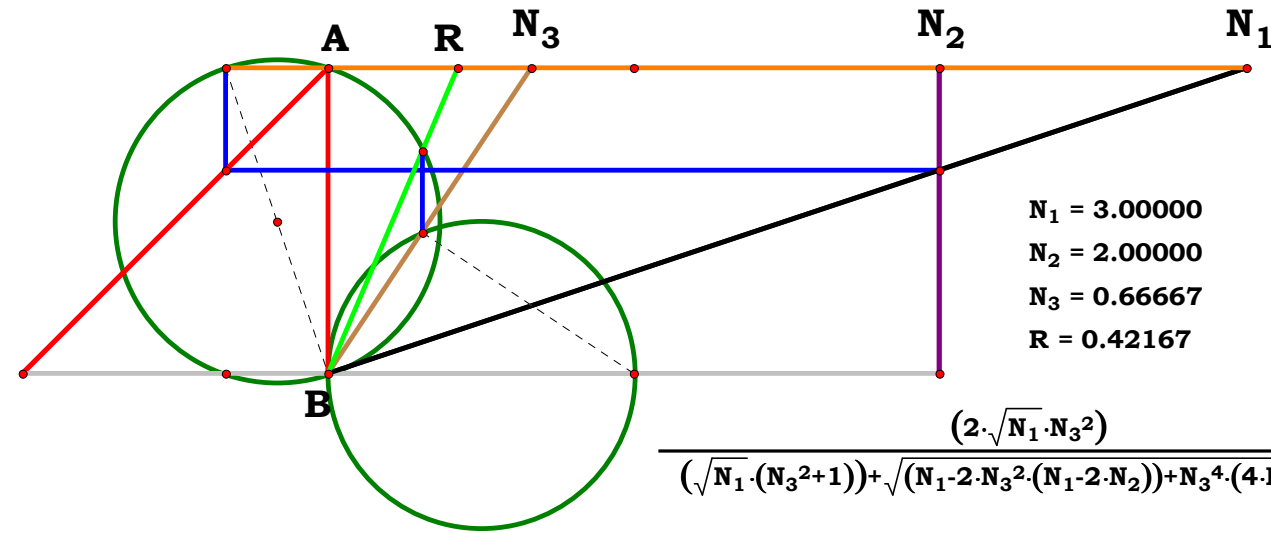
Definitions.

$$R - \frac{2 \cdot N_3^2 \cdot \sqrt{(N_3^2 + 1)^2}}{(N_3^2 + 1) \cdot \left[\sqrt{(N_3^2 + 1)^2} + \sqrt{2 \cdot N_3^2 - 3 \cdot N_3^4 - 4 \cdot AC \cdot N_3^2 - 4 \cdot AC \cdot N_3^4 + 1} \right]} = 0$$

$$R - \frac{2 \cdot \sqrt{N_1} \cdot N_3^2}{\sqrt{N_1} \cdot (N_3^2 + 1) + \sqrt{N_1 - 2 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_3^4 \cdot (4 \cdot N_2 - 7 \cdot N_1)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

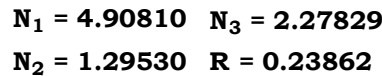
$$R - \frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) + \sqrt{A} \cdot \sqrt{N_u^5 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot (B - 2 \cdot A)}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

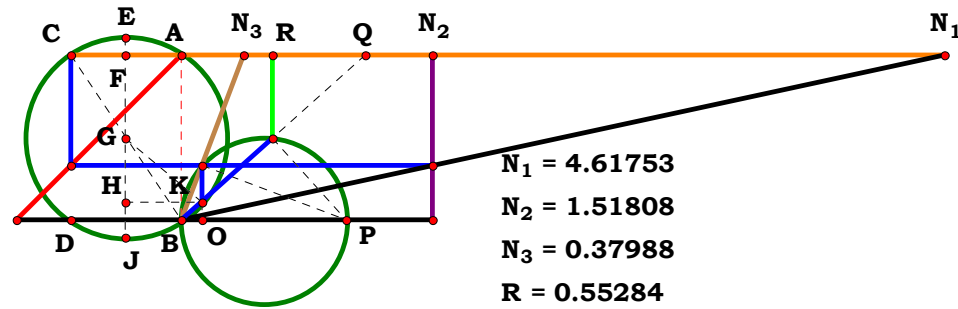
$$R - \frac{2 \cdot \sqrt{X} \cdot Z^2 \cdot \sqrt{o \cdot p}}{\sqrt{o} \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot (Z^2 + q^2) - X \cdot p \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)} + \sqrt{o \cdot p} \cdot \sqrt{X} \cdot (Z^2 + q^2)} = 0$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 0.66667 \\ R &= 0.42167 \end{aligned}$$

$$\frac{(2 \cdot \sqrt{N_1} \cdot N_3^2)}{(\sqrt{N_1} \cdot (N_3^2 + 1)) + \sqrt{(N_1 - 2 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2)) + N_3^4 \cdot (4 \cdot N_2 - 7 \cdot N_1)}} - R = 0.00000$$


$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{R} - \frac{\sqrt{\mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)^2 \cdot (\mathbf{Y} \cdot \mathbf{o} - 2 \cdot \mathbf{X} \cdot \mathbf{p}) + \mathbf{X}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{Z}^4 + 4 \cdot \mathbf{Z}^3 \cdot \mathbf{q} - 2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{q}^3 + \mathbf{q}^4) - (\mathbf{Z}^2 + \mathbf{q}^2) \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})}}{2 \cdot \mathbf{X} \cdot \mathbf{p} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.61753$ $N_2 := 1.51808$ $N_3 := .37988$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

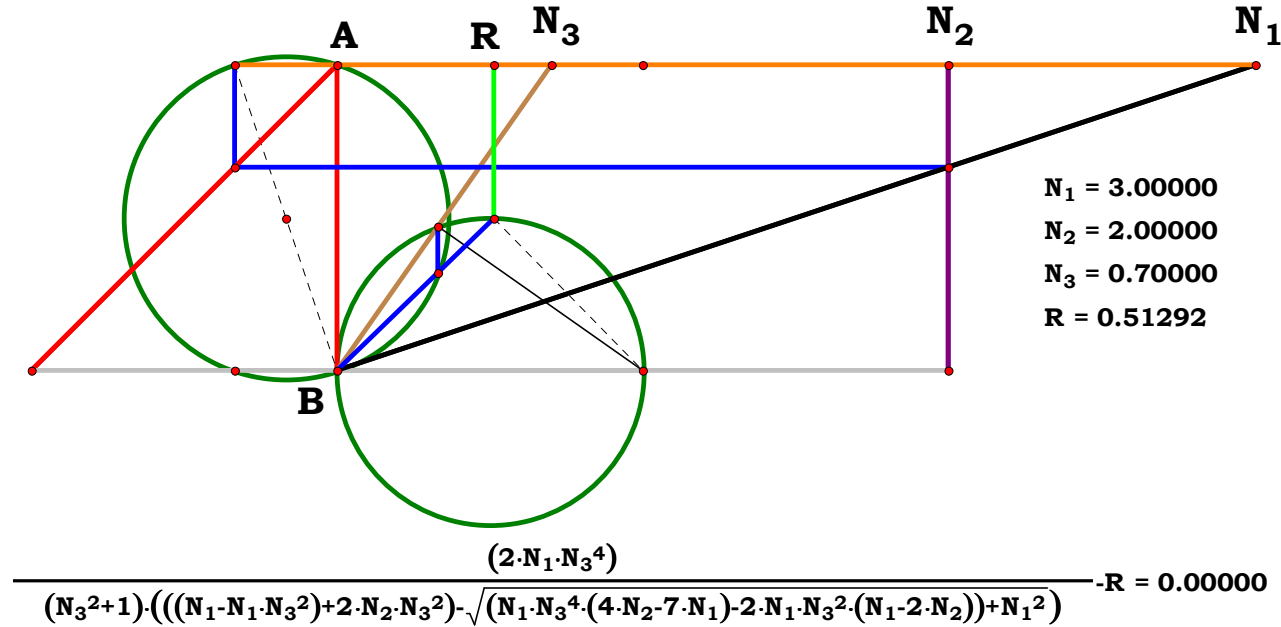
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BO := \frac{N_3^2}{N_3^2 + 1} \quad GK := \frac{EJ}{2}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad AQ := \frac{BO}{KO}$$

$$R := \frac{AQ^2}{AQ^2 + 1} \quad R = 0.552845$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.70000$
 $R = 0.51292$

Definitions.

$$R - \frac{4 \cdot N_3^4}{2 \cdot (N_3^2 + 1) \cdot (N_3^2 - 2 \cdot AC \cdot N_3^2 + 1) - 2 \cdot \sqrt{(N_3^2 + 1)^2} \cdot \sqrt{2 \cdot N_3^2 - 3 \cdot N_3^4 - 4 \cdot AC \cdot N_3^2 - 4 \cdot AC \cdot N_3^4 + 1}} = 0$$

$$R - \frac{2 \cdot N_1 \cdot N_3^4}{(N_3^2 + 1) \cdot [N_1 - N_1 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3^2 - \sqrt{N_1 \cdot N_3^4 \cdot (4 \cdot N_2 - 7 \cdot N_1) - 2 \cdot N_1 \cdot N_3^2 \cdot (N_1 - 2 \cdot N_2) + N_1^2}]} = 0$$

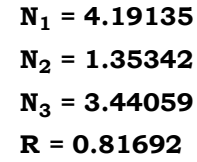
$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{B})^2 \cdot N_u^4}{(C^2 + N_u^2) \cdot [B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)}]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot X \cdot Z^4 \cdot p}{(Z^2 + q^2) \cdot [2 \cdot Y \cdot Z^2 \cdot o - X \cdot Z^2 \cdot p + X \cdot p \cdot q^2 - \sqrt{p} \cdot \sqrt{4 \cdot Y \cdot X \cdot Z^2 \cdot o \cdot (Z^2 + q^2) - X^2 \cdot p \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)}}] = 0$$

Descriptions.


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

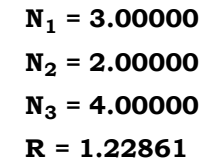
$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{OQ} := \frac{\mathbf{N}_3}{\mathbf{N}_3^2 + 1} \quad \mathbf{HJ} := \mathbf{OQ} + \mathbf{EF}$$

$$\mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})} \quad \mathbf{R} := \frac{\mathbf{HK} - \mathbf{AF}}{\mathbf{OQ}}$$

R = 0.816925



Definitions.

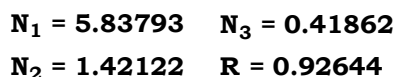
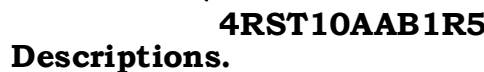
$$\frac{\sqrt{((((N_3^4 \cdot (N_1 - N_2)^2 + 4 \cdot N_1^2 \cdot N_3 \cdot (N_3^2 + 1))) - 2 \cdot N_3^2 \cdot ((N_1^2 + 2 \cdot N_1 \cdot N_2) - N_2^2)) + N_1^2) - 2 \cdot N_1 \cdot N_2 + N_2^2 - (N_3^2 + 1) \cdot (N_1 - N_2)}}{2 \cdot N_1 \cdot N_3} - R = 0.00000$$

$$R - \frac{(N_3^2 + 1) \cdot \left[\sqrt{AC^2 \cdot (N_3^2 + 1)^2 + 4 \cdot N_3 \cdot (N_3^2 - N_3 + 1)} - AC \cdot \sqrt{(N_3^2 + 1)^2} \right]}{2 \cdot N_3 \cdot \sqrt{(N_3^2 + 1)^2}} = 0$$

$$\mathbf{R} - \frac{\sqrt{N_3^4 \cdot (N_1 - N_2)^2 + 4 \cdot N_1^2 \cdot N_3 \cdot (N_3^2 + 1) - 2 \cdot N_3^2 \cdot (N_1^2 + 2 \cdot N_1 \cdot N_2 - N_2^2) + N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2 - (N_3^2 + 1) \cdot (N_1 - N_2)}}{2 \cdot N_1 \cdot N_3} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{C}^4 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{N}_{\mathbf{u}}^4) + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} - 2 \cdot \mathbf{B}) + (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B})}}{2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B} \cdot \mathbf{C}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{(\mathbf{Y} \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{p}) \cdot (\mathbf{Z}^2 + \mathbf{q}^2) + \sqrt{\mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)^2 \cdot (\mathbf{Y} \cdot \mathbf{o} - 2 \cdot \mathbf{X} \cdot \mathbf{p}) + \mathbf{X}^2 \cdot \mathbf{p}^2 \cdot (\mathbf{Z}^4 + 4 \cdot \mathbf{Z}^3 \cdot \mathbf{q} - 2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{q}^3 + \mathbf{q}^4)}}{2 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q}} = 0$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

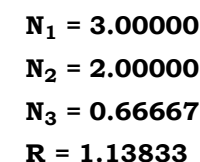
$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{BO} := \frac{N_3^2}{N_3^2 + 1}$$

$$\mathbf{HK} := \mathbf{AF} + \mathbf{BO} \quad \mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2}$$

$$\mathbf{KO} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF}) \quad \mathbf{R} := \frac{\mathbf{BO}}{\mathbf{KO}}$$

R = 0.926446



$$\frac{(2 \cdot N_3^2 \cdot \sqrt{N_1})}{(\sqrt{N_1} \cdot (N_3^2 + 1)) - \sqrt{(N_1 \cdot 2 \cdot N_3^2 \cdot (N_1 \cdot 2 \cdot N_2)) + N_3^4 \cdot (4 \cdot N_2 \cdot 7 \cdot N_1)}} - R = 0.00000$$

Definitions.

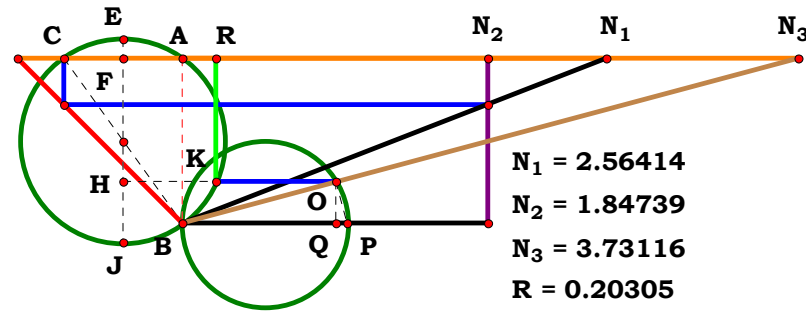
$$\mathbf{R} - \frac{2 \cdot \mathbf{N}_3^2 \cdot \sqrt{(\mathbf{N}_3^2 + 1)^2}}{(\mathbf{N}_3^2 + 1) \cdot \left[\sqrt{(\mathbf{N}_3^2 + 1)^2} - \sqrt{2 \cdot \mathbf{N}_3^2 - 4 \cdot \mathbf{AC} \cdot \mathbf{N}_3^2 \cdot (\mathbf{N}_3^2 + 1) - 3 \cdot \mathbf{N}_3^4 + 1} \right]} = \mathbf{0}$$

$$\mathbf{R} - \frac{2 \cdot \sqrt{\mathbf{N}_1} \cdot \mathbf{N}_3^2}{\sqrt{\mathbf{N}_1} \cdot (\mathbf{N}_3^2 + 1) - \sqrt{\mathbf{N}_1 - 2 \cdot \mathbf{N}_3^2} \cdot (\mathbf{N}_1 - 2 \cdot \mathbf{N}_2) + \mathbf{N}_3^4 \cdot (4 \cdot \mathbf{N}_2 - 7 \cdot \mathbf{N}_1)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{2 \cdot (\sqrt{\mathbf{N_u}})^5 \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{N_u}} \cdot \mathbf{N_u}^4 \cdot (4 \cdot \mathbf{A} - 7 \cdot \mathbf{B}) + \mathbf{B} \cdot \mathbf{C}^4 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 2 \cdot \mathbf{A})} = 0 \quad \mathbf{N_1} - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N_2} - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N_3} - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{2 \cdot \sqrt{\mathbf{X}} \cdot \mathbf{Z}^2 \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}}}{\sqrt{\mathbf{o} \cdot \mathbf{p}} \cdot \sqrt{\mathbf{X}} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) - \sqrt{\mathbf{o}} \cdot \sqrt{4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} - \mathbf{X} \cdot \mathbf{p} \cdot (7 \cdot \mathbf{Z}^4 + 2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 - \mathbf{q}^4)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.56414$ $N_2 := 1.84739$ $N_3 := 3.73116$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

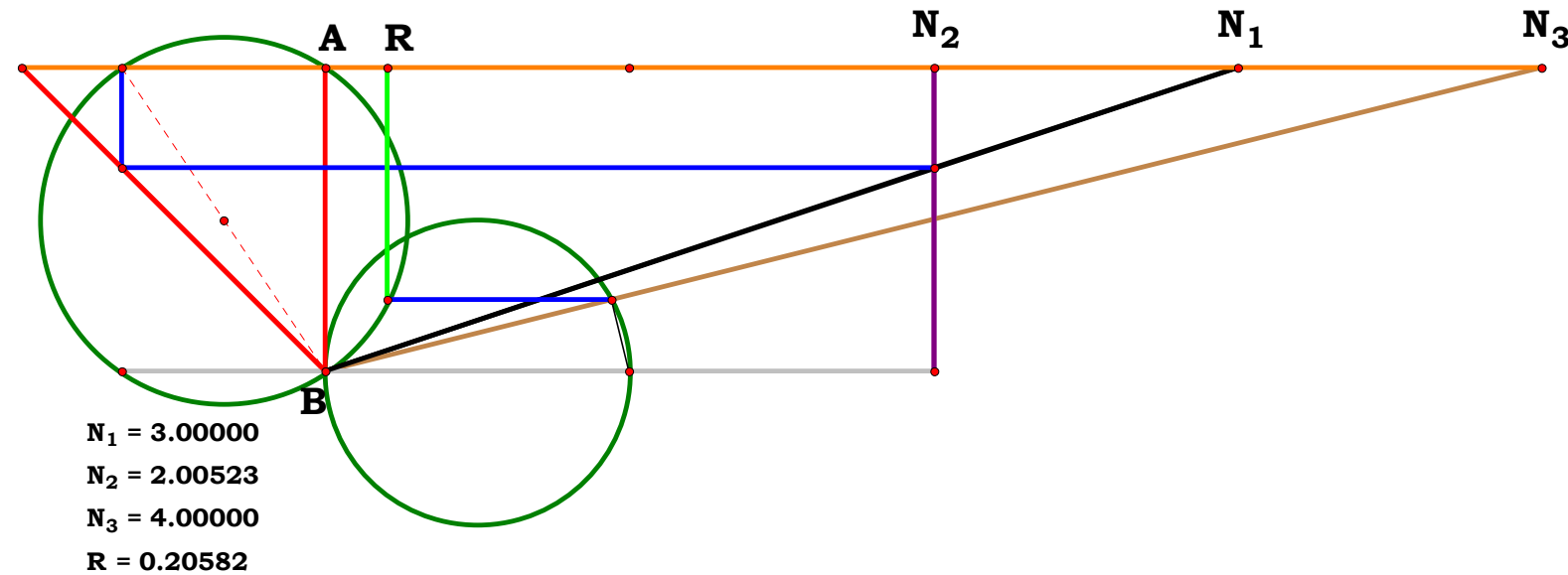
$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := HK - AF$$

$$R = 0.203054$$



$$N_1 = 3.00000$$

$$N_2 = 2.00523$$

$$N_3 = 4.00000$$

$$R = 0.20582$$

$$\frac{\sqrt{N_2^2 + N_2^2 \cdot N_3^2 \cdot (N_3^2 + 2) + 4 \cdot N_1^2 \cdot N_3 \cdot ((N_3^2 - N_3) + 1) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_1 \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_2^2 + N_2^2 \cdot N_3^2 \cdot (N_3^2 + 2) + 4 \cdot N_1^2 \cdot N_3 \cdot (N_3^2 - N_3 + 1) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_1 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{2 \cdot B \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot o^2 \cdot (Z^2 + q^2)^2 + 4 \cdot X^2 \cdot Z \cdot p^2 \cdot q \cdot (Z^2 - Z \cdot q + q^2) - Y \cdot o \cdot (Z^2 + q^2)}}{2 \cdot X \cdot p \cdot (Z^2 + q^2)} = 0$$



4RST10AAB2R4
 Descriptions.

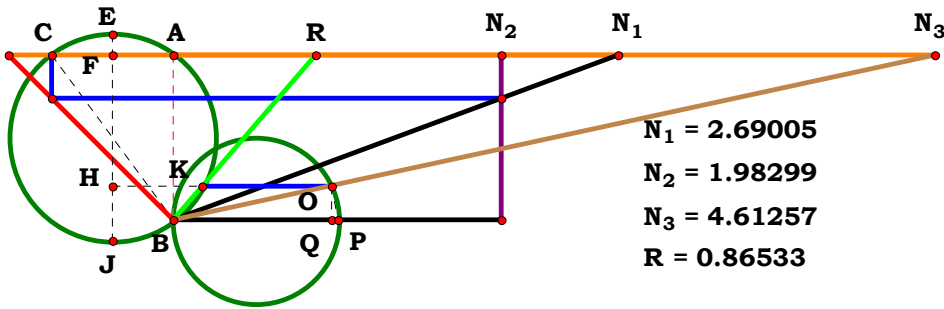
$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HK - AF}{OQ}$$

$$R = 0.865329$$



$$N_1 = 2.69005$$

$$N_2 = 1.98299$$

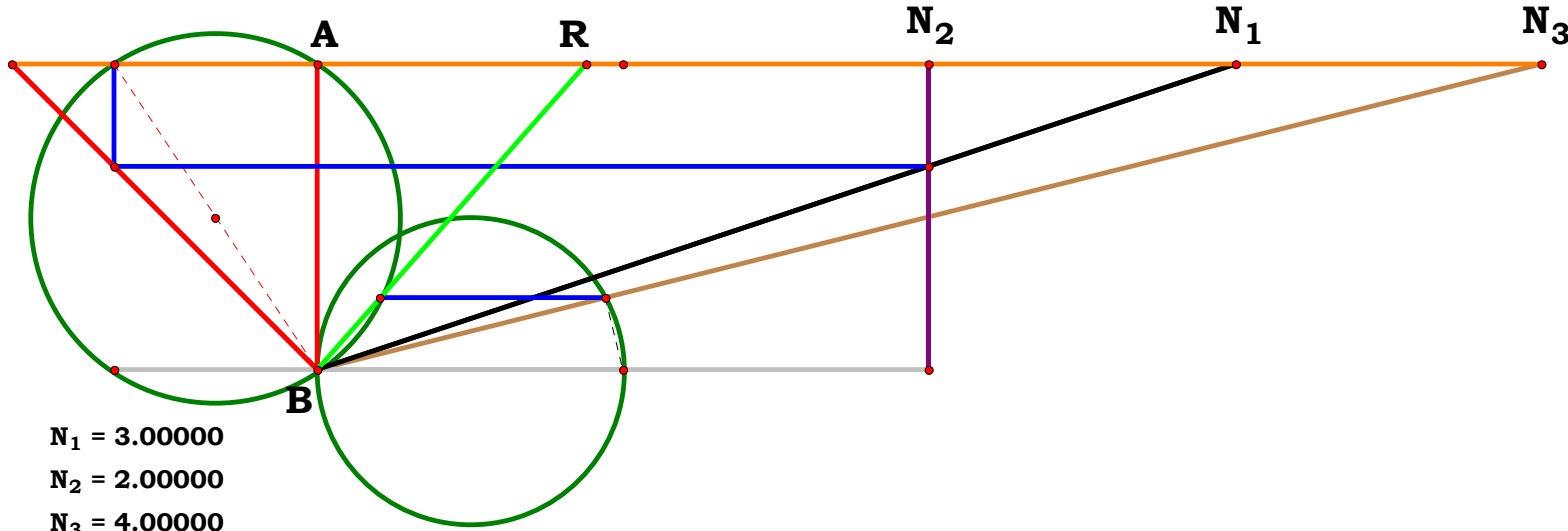
$$N_3 = 4.61257$$

$$R = 0.86533$$

Unit. $AB := 1$ Given. $N_1 := 2.69005$ $N_2 := 1.98299$ $N_3 := 4.61257$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$N_1 = 3.00000$$

$$N_2 = 2.00000$$

$$N_3 = 4.00000$$

$$R = 0.87614$$

Definitions.

$$\frac{\sqrt{((N_2^2 \cdot N_3^4 + 4 \cdot N_1^2 \cdot N_3 \cdot (N_3^2 + 1)) - 2 \cdot N_3^2 \cdot (2 \cdot N_1^2 - N_2^2)) + N_2^2 - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_1 \cdot N_3} - R = 0.00000$$

$$R - \frac{\sqrt{N_2^2 \cdot N_3^4 + 4 \cdot N_1^2 \cdot N_3 \cdot (N_3^2 + 1) - 2 \cdot N_3^2 \cdot (2 \cdot N_1^2 - N_2^2) + N_2^2 - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_1 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{2 \cdot N_u \cdot B \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot o^2 \cdot (Z^2 + q^2)^2 + 4 \cdot X^2 \cdot Z \cdot p^2 \cdot q \cdot (Z^2 - Z \cdot q + q^2) - Y \cdot o \cdot (Z^2 + q^2)}}{2 \cdot X \cdot Z \cdot p \cdot q} = 0$$



4RST10AAB3R0

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad AS := \frac{GK - AF}{AB - FG}$$

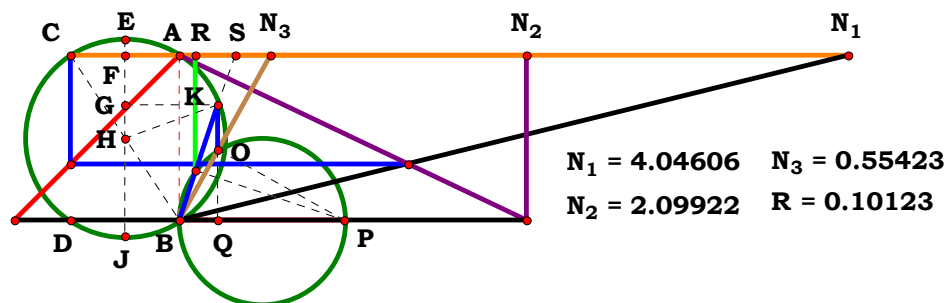
$$R := \frac{AS^2}{AS^2 + 1} \quad R = 0.101239$$

Definitions.

$$R - \frac{2 \cdot N_3^4 \cdot (N_1 + N_2)}{(N_3^2 + 1) \cdot [N_1 + N_2 - N_3^2 \cdot (N_1 - N_2) + \sqrt{N_1 + N_2 - 2 \cdot N_3^2 \cdot (N_1 - N_2) - N_3^4 \cdot (7 \cdot N_1 + 3 \cdot N_2)} \cdot \sqrt{N_1 + N_2}]} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot N_u^5 \cdot (\sqrt{A \cdot B})^2 \cdot (A + B)}{(C^2 + N_u^2) \cdot [A \cdot B \cdot N_u \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A - B)] + A \cdot B \cdot \sqrt{N_u} \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)] \cdot \sqrt{N_u} \cdot (A + B)}] = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

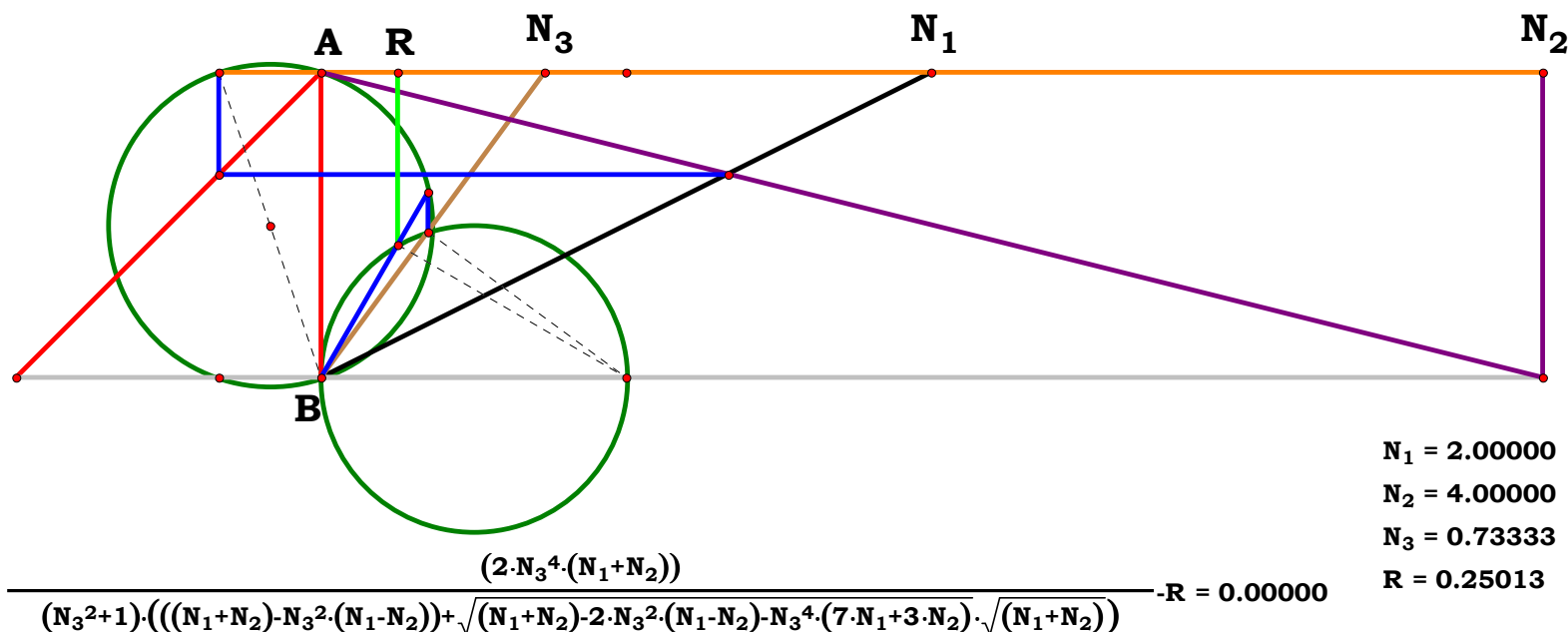
$$R - \frac{2 \cdot Z^4 \cdot (X \cdot p + Y \cdot o)}{(Z^2 + q^2) \cdot [\sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{Y \cdot o \cdot (2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4)} - X \cdot p \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4) - Z^2 \cdot (X \cdot p - Y \cdot o) + q^2 \cdot (X \cdot p + Y \cdot o)]} = 0$$



Unit. AB := 1 Given. N₁ := 4.04606 N₂ := 2.09922 N₃ := .55423

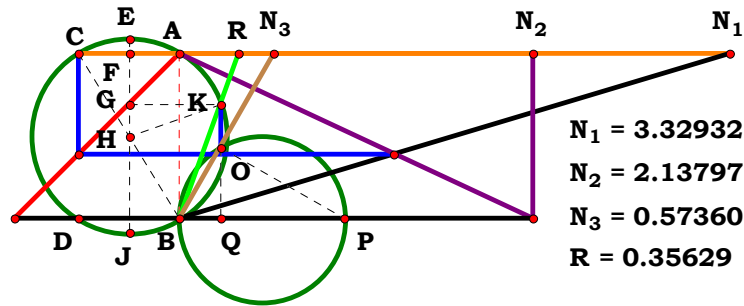
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



N₁ = 2.00000
N₂ = 4.00000
N₃ = 0.73333
R = 0.25013

$$\frac{(2 \cdot N_3^4 \cdot (N_1 + N_2))}{(N_3^2 + 1) \cdot (((N_1 + N_2) - N_3^2 \cdot (N_1 - N_2)) + \sqrt{(N_1 + N_2) - 2 \cdot N_3^2 \cdot (N_1 - N_2) - N_3^4 \cdot (7 \cdot N_1 + 3 \cdot N_2)} \cdot \sqrt{(N_1 + N_2)})} \cdot R = 0.00000$$



Unit. $AB := 1$ Given. $N_1 := 3.32932$ $N_2 := 2.13797$ $N_3 := .57360$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

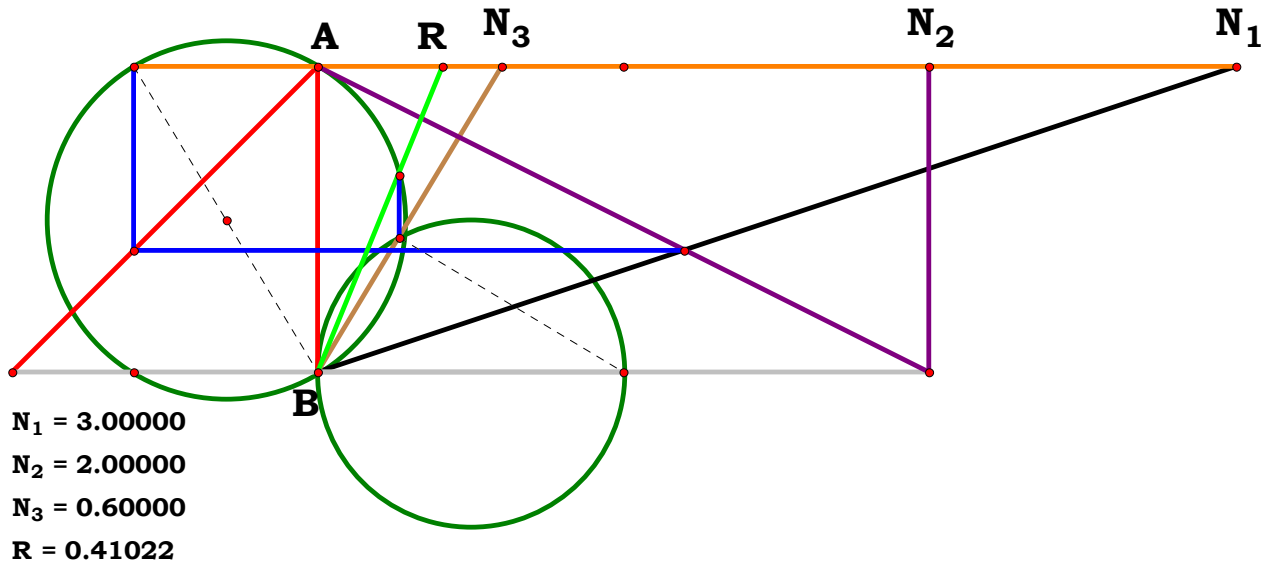
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad R := \frac{GK - AF}{AB - FG}$$

$$R = 0.356297$$



$$\frac{(2 \cdot N_3^2 \cdot \sqrt{(N_1 + N_2)})}{\sqrt{(N_1 + N_2) - N_3^4 \cdot (7 \cdot N_1 + 3 \cdot N_2) - 2 \cdot N_3^2 \cdot (N_1 - N_2) + (N_3^2 + 1) \cdot \sqrt{(N_1 + N_2)}}} - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_3^2 \cdot \sqrt{N_1 + N_2}}{\sqrt{N_1 + N_2 - N_3^4 \cdot (7 \cdot N_1 + 3 \cdot N_2) - 2 \cdot N_3^2 \cdot (N_1 - N_2) + \sqrt{N_1 + N_2} \cdot (N_3^2 + 1)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)] + \sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2)}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Z^2 \cdot \sqrt{X \cdot p + Y \cdot o}}{\sqrt{X \cdot p + Y \cdot o \cdot (Z^2 + q^2) + \sqrt{Y \cdot o \cdot (2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4) - X \cdot p \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)}}} = 0$$



Descriptions.

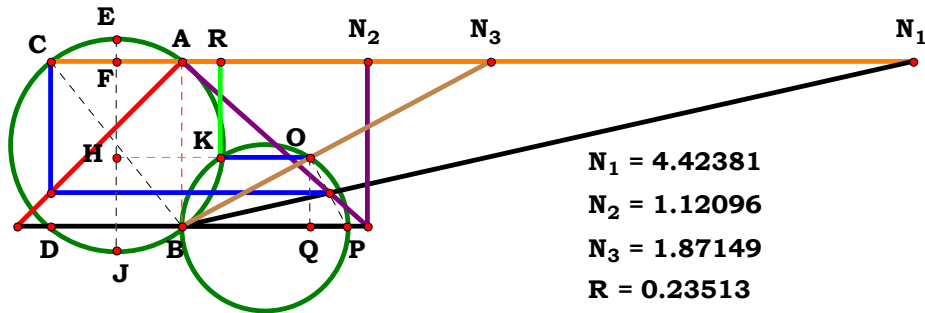
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := HK - AF$$

R = 0.235134

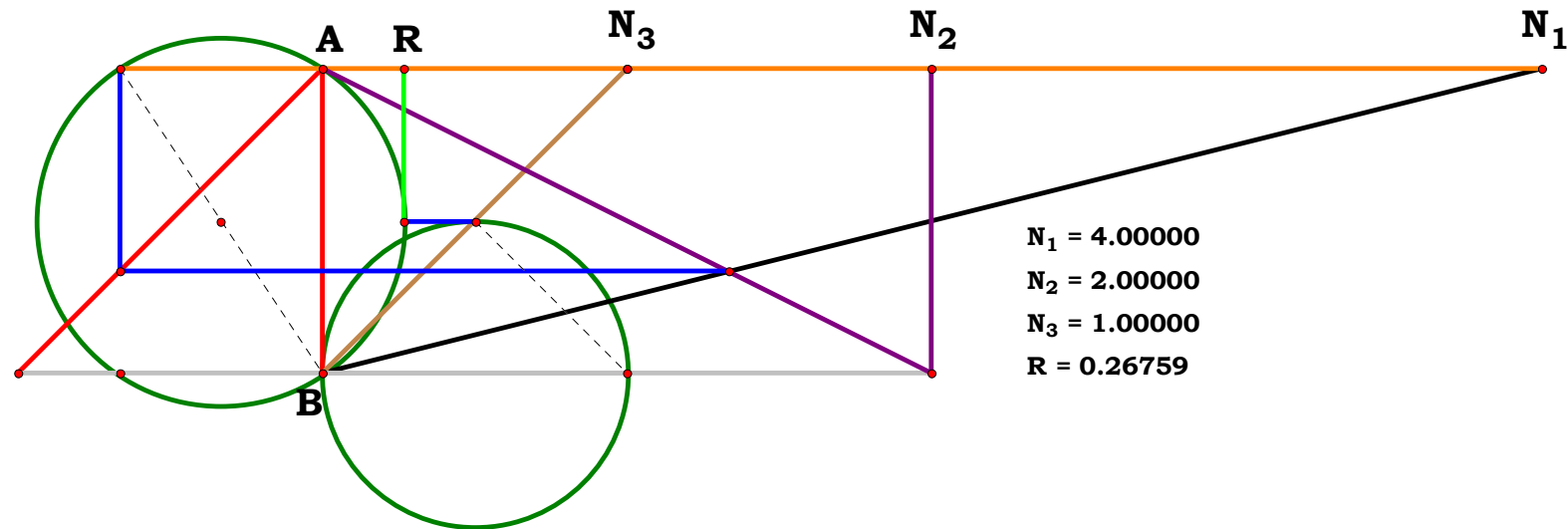


N₁ = 4.42381
N₂ = 1.12096
N₃ = 1.87149
R = 0.23513

Unit. **AB := 1** Given. **N₁ := 4.42381** **N₂ := 1.12096** **N₃ := 1.87149**

N_u := 3 **A := $\frac{N_u}{N_1}$** **B := $\frac{N_u}{N_2}$** **C := $\frac{N_u}{N_3}$**

X := 20 **Y := 19** **Z := 18** **o := $\frac{X}{N_1}$** **p := $\frac{Y}{N_2}$** **q := $\frac{Z}{N_3}$**



N₁ = 4.00000
N₂ = 2.00000
N₃ = 1.00000
R = 0.26759

$$\frac{\sqrt{(N_1^2 - 2 \cdot N_3^2 \cdot (N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2)) + N_1^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_1 \cdot (N_3^2 + 1)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1^2 - 2 \cdot N_3^2 \cdot (N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) + N_1^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_1 \cdot (N_3^2 + 1)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2) - B \cdot (C^2 + N_u^2)}}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{X^2 \cdot p^2 \cdot (Z^4 + 4 \cdot Z^3 \cdot q - 2 \cdot Z^2 \cdot q^2 + 4 \cdot Z \cdot q^3 + q^4) + 4 \cdot Y \cdot Z \cdot o \cdot q \cdot (Z^2 - Z \cdot q + q^2) \cdot (2 \cdot X \cdot p + Y \cdot o) - X \cdot p \cdot (Z^2 + q^2)}}{(2 \cdot X \cdot p + 2 \cdot Y \cdot o) \cdot (Z^2 + q^2)} = 0$$



4RST10AAB3R4

Descriptions.

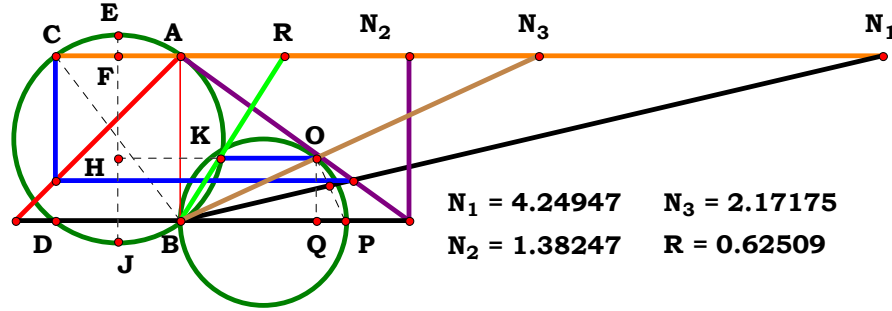
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HK - AF}{OQ}$$

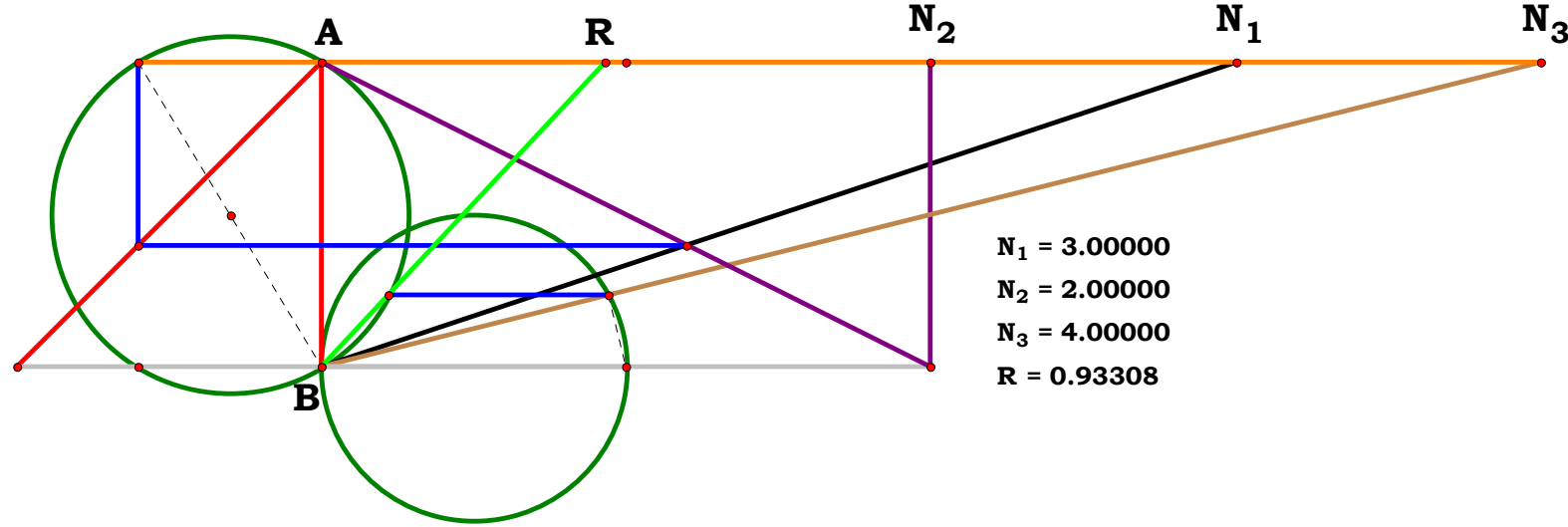
$$R = 0.625087$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 4.24947 \quad N_2 := 1.38247 \quad N_3 := 2.17175$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$N_1 = 3.00000 \\ N_2 = 2.00000 \\ N_3 = 4.00000 \\ R = 0.93308$$

$$\frac{\sqrt{(N_1^2 \cdot 2 \cdot N_3^2 \cdot (N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2)) + N_1^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_1 \cdot (N_3^2 + 1)}}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1^2 - 2 \cdot N_3^2 \cdot (N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2) + N_1^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_1 \cdot (N_3^2 + 1)}}{2 \cdot N_3 \cdot (N_1 + N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2) - B \cdot (C^2 + N_u^2)}}{2 \cdot C \cdot N_u \cdot (A + B)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot Y \cdot Z \cdot o \cdot q \cdot (Z^2 - Z \cdot q + q^2) \cdot (2 \cdot X \cdot p + Y \cdot o) + X^2 \cdot p^2 \cdot (Z^4 + 4 \cdot Z^3 \cdot q - 2 \cdot Z^2 \cdot q^2 + 4 \cdot Z \cdot q^3 + q^4) - X \cdot p \cdot (Z^2 + q^2)}}{2 \cdot Z \cdot q \cdot (X \cdot p + Y \cdot o)} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$GK := \frac{EJ}{2} \quad BO := \frac{N_3^2}{N_3^2 + 1}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad R := \frac{BO}{KO}$$

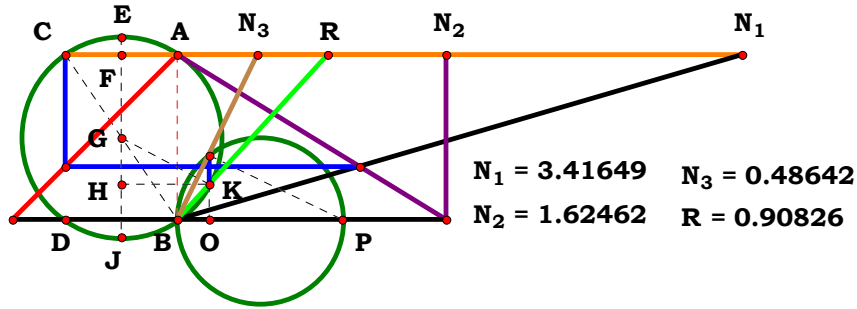
$$R = 0.908272$$

Definitions.

$$R - \frac{2 \cdot N_3^2 \cdot \sqrt{N_1 + N_2}}{\sqrt{N_1 + N_2} \cdot (N_3^2 + 1) - \sqrt{N_1 + N_2 - 2 \cdot N_3^2 \cdot (N_1 - N_2) - N_3^4 \cdot (7 \cdot N_1 + 3 \cdot N_2)}} = 0$$

$$R - \frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}} = 0$$

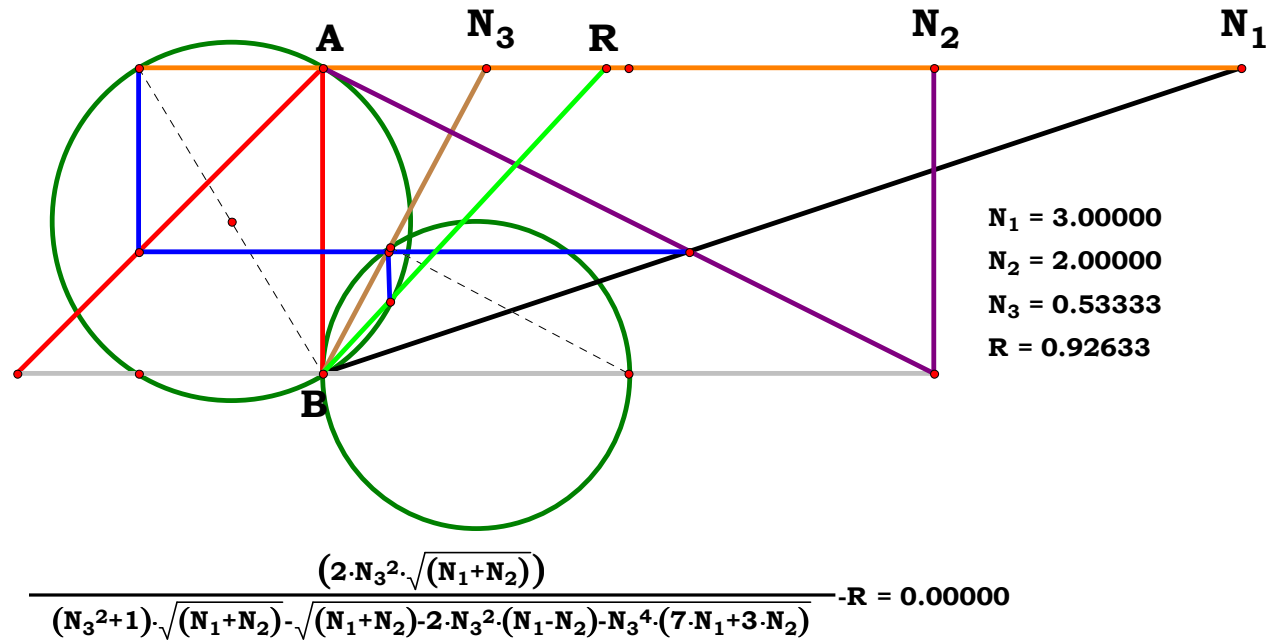
$$R - \frac{2 \cdot Z^2 \cdot \sqrt{X \cdot p + Y \cdot o}}{\sqrt{X \cdot p + Y \cdot o} \cdot (Z^2 + q^2) - \sqrt{Y \cdot o \cdot (2 \cdot Z^2 \cdot q^2 - 3 \cdot Z^4 + q^4) - X \cdot p \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.41649 \quad N_2 := 1.62462 \quad N_3 := .48642$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$



Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad AS := \frac{GK - AF}{AB - FG}$$

$$R := \frac{AS^2}{AS^2 + 1} \quad R = 0.111319$$

Definitions.

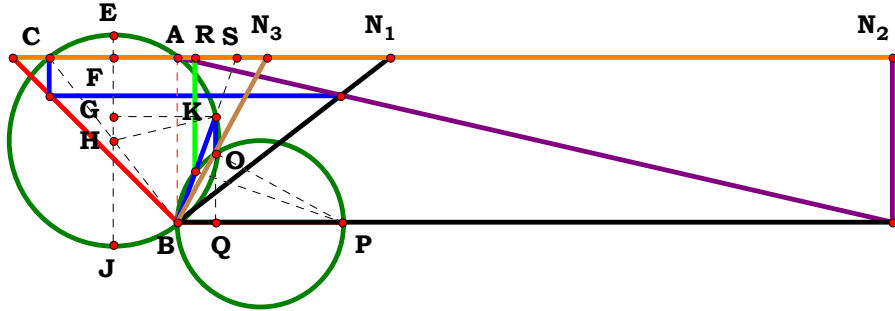
$$R - \frac{2 \cdot N_3^4 \cdot (N_1 + N_2)}{(N_3^2 + 1) \cdot \left[N_1 + N_2 + N_3^2 \cdot (N_1 - N_2) + \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 + 2 \cdot N_3^2 \cdot (N_1 - N_2) - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)} \right]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot N_u^5 \cdot (A + B)}{(C^2 + N_u^2) \cdot \left[\sqrt{-N_u} \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B) \right]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Z^4 \cdot (\sqrt{X \cdot p + Y \cdot o})^2}{(Z^2 + q^2) \cdot \left[\sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{2 \cdot Z^2 \cdot q^2 \cdot (X \cdot p - Y \cdot o) + q^4 \cdot (X \cdot p + Y \cdot o) - Z^4 \cdot (3 \cdot X \cdot p + 7 \cdot Y \cdot o) + Z^2 \cdot (X \cdot p - Y \cdot o) + q^2 \cdot (X \cdot p + Y \cdot o)} \right]} = 0$$

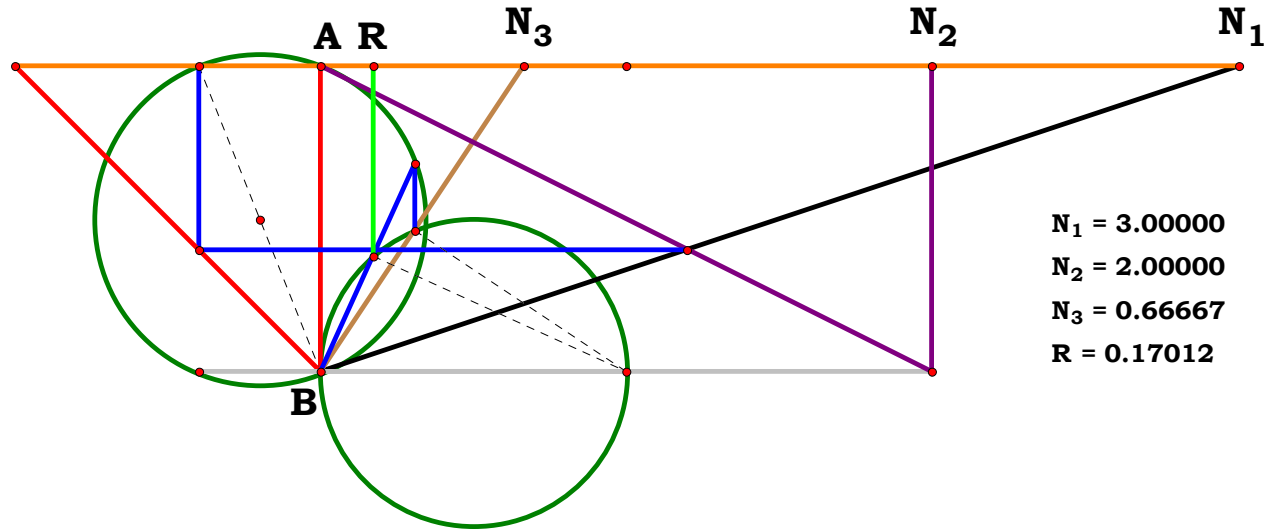


$$N_1 = 1.28562 \\ N_2 = 4.32695 \\ N_3 = 0.54454 \\ R = 0.11132$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.28562 \quad N_2 := 4.32695 \quad N_3 := .54454$$

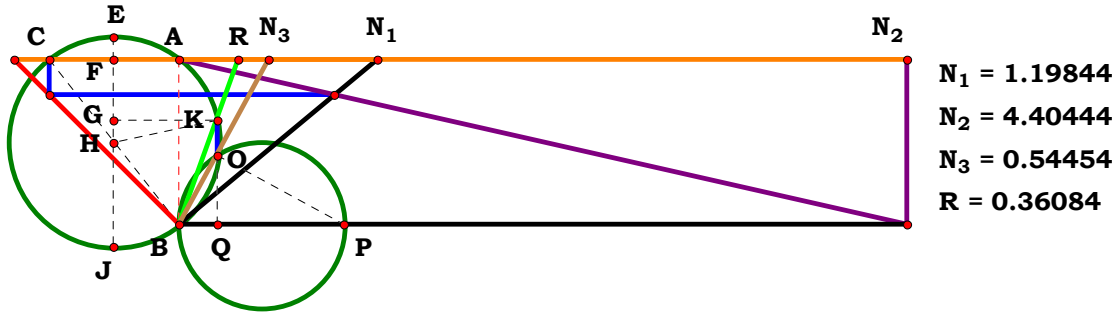
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$N_1 = 3.00000 \\ N_2 = 2.00000 \\ N_3 = 0.66667 \\ R = 0.17012$$

$$\frac{(2 \cdot N_3^4 \cdot (N_1 + N_2))}{(N_3^2 + 1) \cdot \left(((N_1 + N_2) + N_3^2 \cdot (N_1 - N_2)) + \sqrt{(N_1 + N_2)} \cdot \sqrt{((N_1 + N_2) + 2 \cdot N_3^2 \cdot (N_1 - N_2)) - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)} \right)} - R = 0.00000$$



Unit. AB := 1 Given. $N_1 := 1.19844$ $N_2 := 4.40444$ $N_3 := .54454$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{N_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{N_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{N_3}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

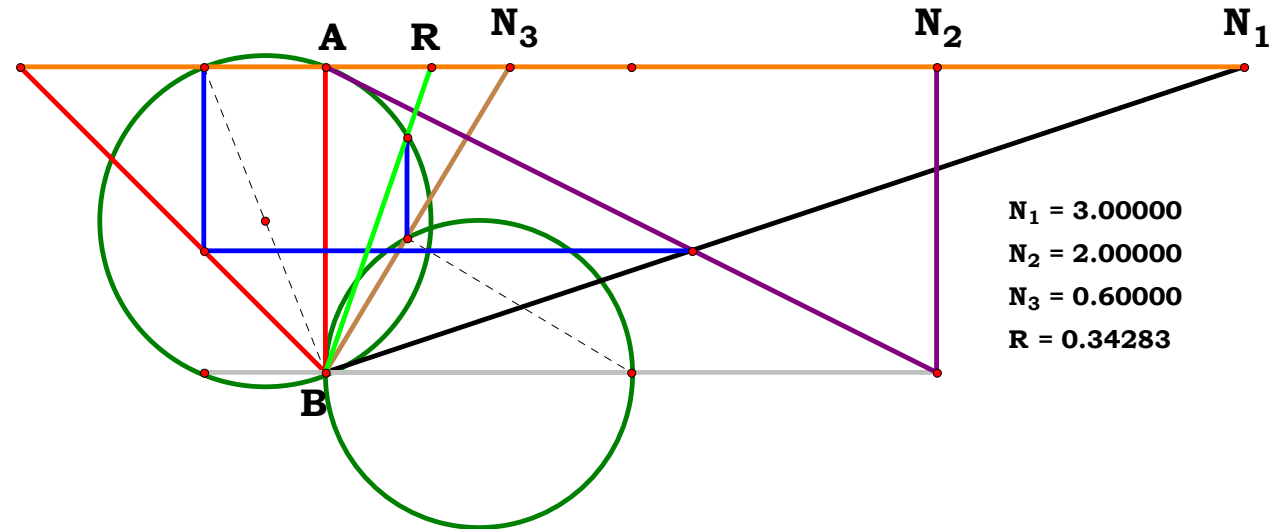
$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \qquad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{BQ} := \frac{\mathbf{N}_3^2}{\mathbf{N}_3^2 + 1} \quad \mathbf{GK} := \mathbf{BQ} + \mathbf{AF}$$

$$\mathbf{HK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{GH} := \sqrt{\mathbf{HK}^2 - \mathbf{GK}^2}$$

$$\mathbf{FG} := \mathbf{HK} - (\mathbf{GH} + \mathbf{EF}) \quad \mathbf{R} := \frac{\mathbf{GK} - \mathbf{AF}}{\mathbf{AB} - \mathbf{FG}}$$

R = 0.360842



$$\frac{(2 \cdot N_3^2 \cdot \sqrt{(N_1 + N_2)})}{(N_3^2 + 1) \cdot \sqrt{(N_1 + N_2)} + \sqrt{((N_1 + N_2) + 2 \cdot N_3^2 \cdot (N_1 - N_2))} \cdot N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)} \cdot R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_3^2 \cdot \sqrt{N_1 + N_2}}{\sqrt{N_1 + N_2} \cdot (N_3^2 + 1) + \sqrt{N_1 + N_2 + 2 \cdot N_3^2 \cdot (N_1 - N_2) - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)}} = 0$$

$$\mathbf{R} - \frac{2 \cdot \mathbf{N_u}^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}}{\sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^4 + -2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B})} + \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)} = 0 \quad \mathbf{N_1} - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N_2} - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N_3} - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{2 \cdot \mathbf{Z}^2 \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}}}{\sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) + \sqrt{2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o}) + \mathbf{q}^4 \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) - \mathbf{Z}^4 \cdot (3 \cdot \mathbf{X} \cdot \mathbf{p} + 7 \cdot \mathbf{Y} \cdot \mathbf{o})}} = 0$$

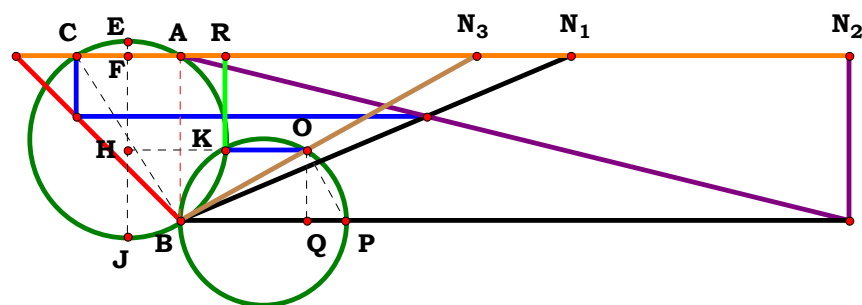

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{OQ} := \frac{\mathbf{N}_3}{\mathbf{N}_3^2 + 1} \quad \mathbf{HJ} := \mathbf{OQ} + \mathbf{EF}$$

$$\mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})} \quad \mathbf{R} := \mathbf{HK} - \mathbf{AF}$$

R = 0.270857



$$N_2 = 4.04606$$

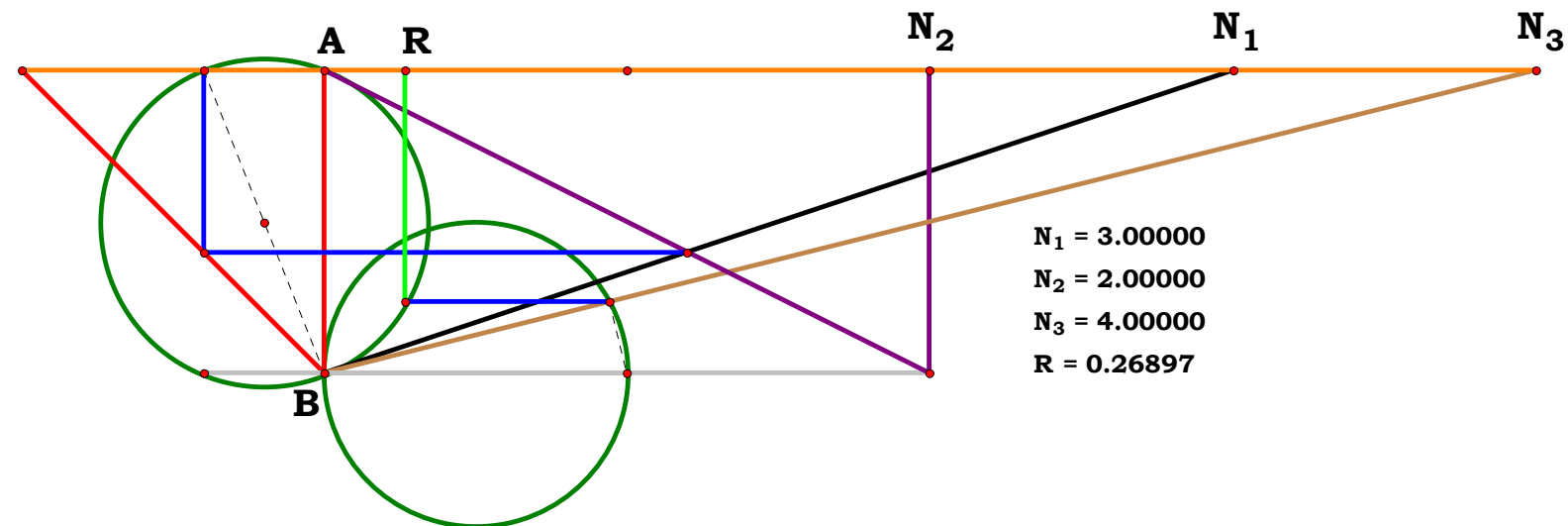
$$N_3 = 1.79401$$

R = 0.27086

Unit. AB := 1 Given. $N_1 := 2.36074$ $N_2 := 4.04606$ $N_3 := 1.79401$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2} \quad \mathbf{C} := \frac{\mathbf{N}_u}{\mathbf{N}_3}$$

$$\mathbf{x} := 20 \quad \mathbf{y} := 19 \quad \mathbf{z} := 18 \quad \mathbf{o} := \frac{\mathbf{x}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{z}}{\mathbf{N}_3}$$



N₂ = 2.00000

N₃ = 4.00000

R = 0.26897

$$\frac{\sqrt{(N_2^2 - 2 \cdot N_3^2 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + N_2^2)) + N_2^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

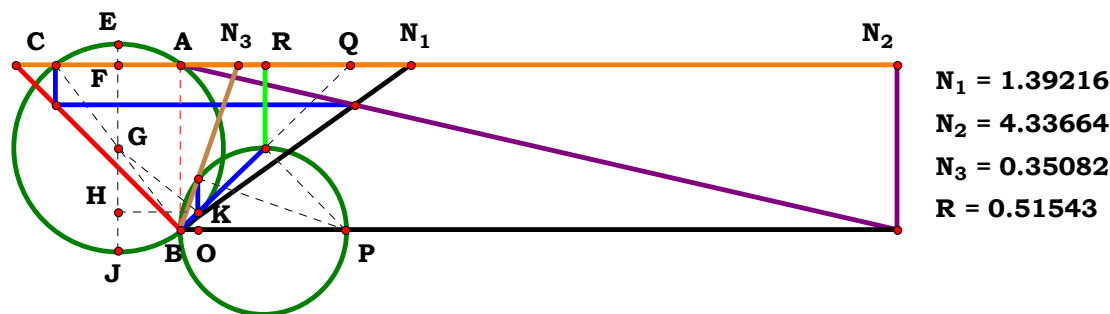
$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2^2 - 2 \cdot \mathbf{N}_3^2 \cdot (2 \cdot \mathbf{N}_1^2 + 4 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 + \mathbf{N}_2^2) + \mathbf{N}_2^2 \cdot \mathbf{N}_3^4 + 4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 + \mathbf{N}_2)^2 \cdot (\mathbf{N}_3^2 + 1) - \mathbf{N}_2 \cdot (\mathbf{N}_3^2 + 1)}}{2 \cdot (\mathbf{N}_1 + \mathbf{N}_2) \cdot (\mathbf{N}_3^2 + 1)} = \mathbf{0}$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^4 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B})^2 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2)} - \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})} = \mathbf{0}$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} \cdot (\mathbf{Z}^2 - \mathbf{Z} \cdot \mathbf{q} + \mathbf{q}^2) \cdot (\mathbf{X} \cdot \mathbf{p} + 2 \cdot \mathbf{Y} \cdot \mathbf{o}) + \mathbf{Y}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{Z}^4 + 4 \cdot \mathbf{Z}^3 \cdot \mathbf{q} - 2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{q}^3 + \mathbf{q}^4) - \mathbf{Y} \cdot \mathbf{o} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)}}{2 \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) \cdot (\mathbf{Z}^2 + \mathbf{q}^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.39216$ $N_2 := 4.33664$ $N_3 := .35082$

$N_1 = 1.39216$
 $N_2 = 4.33664$
 $N_3 = 0.35082$
 $R = 0.51543$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

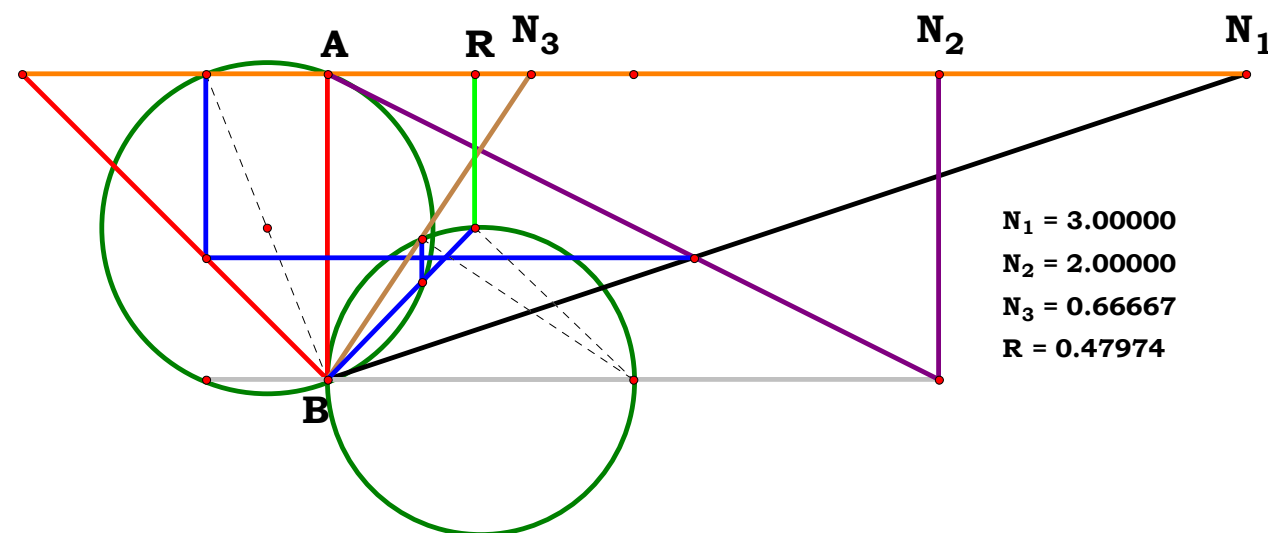
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BO := \frac{N_3^2}{N_3^2 + 1} \quad GK := \frac{EJ}{2}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad AQ := \frac{BO}{KO}$$

$$R := \frac{AQ^2}{AQ^2 + 1} \quad R = 0.51543$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.66667$
 $R = 0.47974$

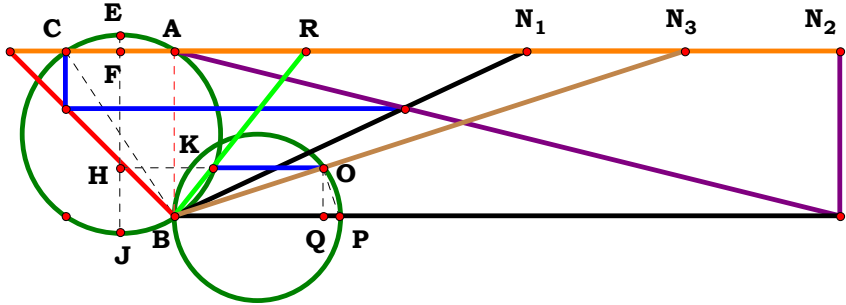
$$\frac{(2 \cdot N_3^4 \cdot (N_1 + N_2))}{(N_3^2 + 1) \cdot ((N_1 + N_2) + N_3^2 \cdot (N_1 - N_2)) - (N_3^2 + 1) \cdot \sqrt{((N_1 + N_2) \cdot (((N_1 + N_2) - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)) + 2 \cdot N_3^2 \cdot (N_1 - N_2)))}} - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_3^4 \cdot (N_1 + N_2)}{(N_3^2 + 1) \cdot [N_1 + N_2 + N_3^2 \cdot (N_1 - N_2)] - (N_3^2 + 1) \cdot \sqrt{(N_1 + N_2) \cdot [N_1 + N_2 - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2) + 2 \cdot N_3^2 \cdot (N_1 - N_2)]}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot N_u^4 \cdot (A + B)}{(C^2 + N_u^2) \cdot [C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}]] = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Z^4 \cdot (X \cdot p + Y \cdot o)}{(Z^2 + q^2) \cdot [Y \cdot o \cdot q^2 - Y \cdot Z^2 \cdot o + X \cdot p \cdot (Z^2 + q^2) - \sqrt{(X \cdot p + Y \cdot o) \cdot (X \cdot p \cdot q^4 - 7 \cdot Y \cdot Z^4 \cdot o - 3 \cdot X \cdot Z^4 \cdot p + Y \cdot o \cdot q^4 + 2 \cdot X \cdot Z^2 \cdot p \cdot q^2 - 2 \cdot Y \cdot Z^2 \cdot o \cdot q^2)]}} = 0$$



$$\begin{aligned} N_1 &= 2.12828 \\ N_2 &= 4.02669 \\ N_3 &= 3.09190 \\ R &= 0.79682 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.12828 \quad N_2 := 4.02669 \quad N_3 := 3.09190$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

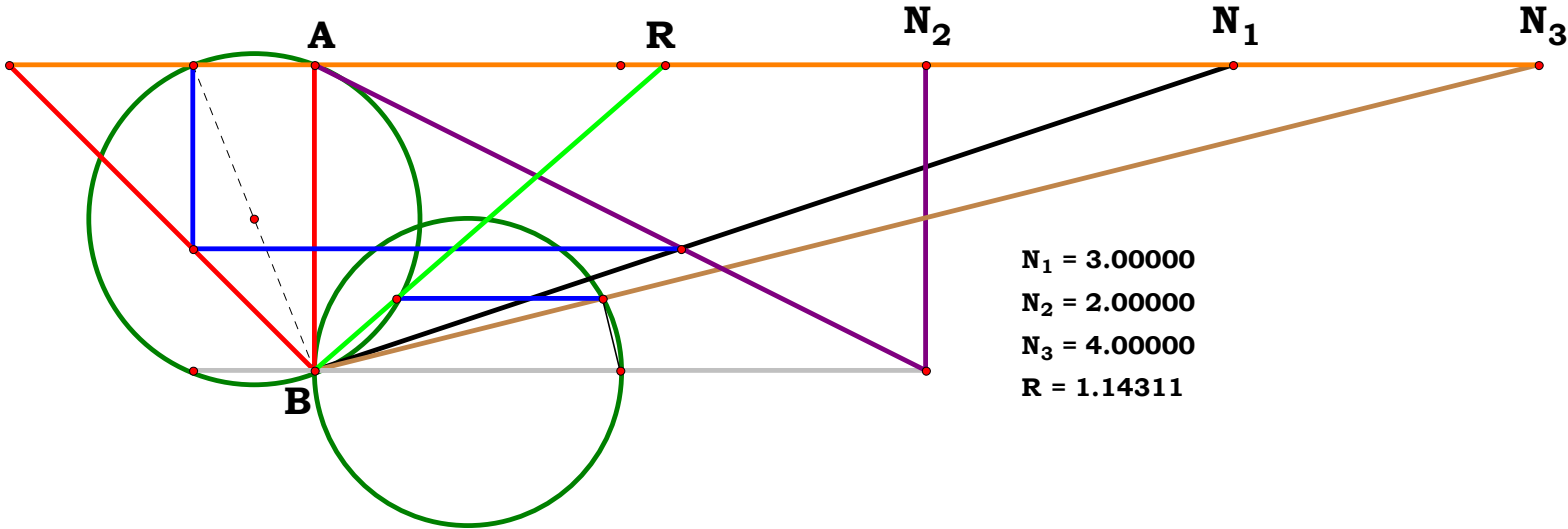
$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HK - AF}{OQ}$$

$$R = 0.796824$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 2.00000 \\ N_3 &= 4.00000 \\ R &= 1.14311 \end{aligned}$$

$$\frac{\sqrt{(N_2^2 - 2 \cdot N_3^2 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + N_2^2)) + N_2^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_3 \cdot (N_1 + N_2)} - R = 0.00000$$

Definitions.

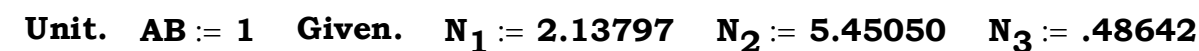
$$R - \frac{\sqrt{N_2^2 - 2 \cdot N_3^2 \cdot (2 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + N_2^2) + N_2^2 \cdot N_3^4 + 4 \cdot N_3 \cdot (N_1 + N_2)^2 \cdot (N_3^2 + 1) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot N_3 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}}{2 \cdot C \cdot N_u \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Y^2 \cdot o^2 \cdot (Z^4 + 4 \cdot Z^3 \cdot q - 2 \cdot Z^2 \cdot q^2 + 4 \cdot Z \cdot q^3 + q^4) + 4 \cdot X \cdot Z \cdot p \cdot q \cdot (Z^2 - Z \cdot q + q^2) \cdot (X \cdot p + 2 \cdot Y \cdot o) - Y \cdot o \cdot (Z^2 + q^2)}}{2 \cdot Z \cdot q \cdot (X \cdot p + Y \cdot o)} = 0$$



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := \mathbf{20} \quad \mathbf{Y} := \mathbf{19} \quad \mathbf{Z} := \mathbf{18} \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

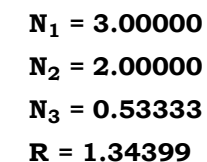
$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{BO} := \frac{\mathbf{N}_3^2}{\mathbf{N}_3^2 + 1}$$

$$\mathbf{HK} := \mathbf{AF} + \mathbf{BO} \quad \mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2}$$

$$\mathbf{KO} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF}) \quad \mathbf{R} := \frac{\mathbf{BO}}{\mathbf{KO}}$$

R = 0.852704



$$\frac{(2 \cdot N_3^{2 \cdot \sqrt{(N_1 + N_2)}})}{(N_3^2 + 1) \cdot \sqrt{(N_1 + N_2)} \cdot \sqrt{((N_1 + N_2) - N_3^4 \cdot (3 \cdot N_1 + 7 \cdot N_2)) + 2 \cdot N_3^2 \cdot (N_1 - N_2)}} - R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{2 \cdot \mathbf{N}_3^2 \cdot \sqrt{\mathbf{N}_1 + \mathbf{N}_2}}{\sqrt{\mathbf{N}_1 + \mathbf{N}_2} \cdot (\mathbf{N}_3^2 + 1) - \sqrt{\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_3^4} \cdot (3 \cdot \mathbf{N}_1 + 7 \cdot \mathbf{N}_2) + 2 \cdot \mathbf{N}_3^2 \cdot (\mathbf{N}_1 - \mathbf{N}_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})}}{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \sqrt{\mathbf{N}_{\mathbf{u}}} \cdot |(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^4 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N}_{\mathbf{u}}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B})|} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{2 \cdot \mathbf{Z}^2 \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}}}{\sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) - \sqrt{2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o}) + \mathbf{q}^4 \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) - \mathbf{Z}^4 \cdot (3 \cdot \mathbf{X} \cdot \mathbf{p} + 7 \cdot \mathbf{Y} \cdot \mathbf{o})}} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad AS := \frac{GK - AF}{AB - FG}$$

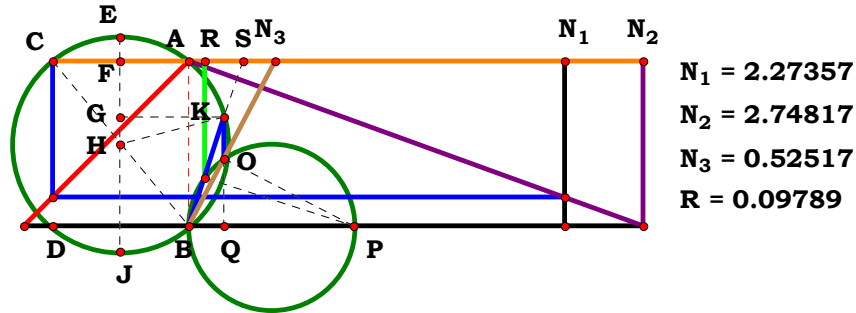
$$R := \frac{AS^2}{AS^2 + 1} \quad R = 0.097888$$

Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_3^4}{(N_3^2 + 1) \cdot \left[N_2 - 2 \cdot N_1 \cdot N_3^2 + N_2 \cdot N_3^2 + \sqrt{N_2^2 - 4 \cdot N_1 \cdot N_2 \cdot N_3^2 \cdot (N_3^2 + 1) - N_2^2 \cdot N_3^2 \cdot (3 \cdot N_3^2 - 2)} \right]} = 0$$

$$R - \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{(C^2 + N_u^2) \cdot \left[\sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 + N_u^2 \cdot (A - 2 \cdot B) \right]} = 0$$

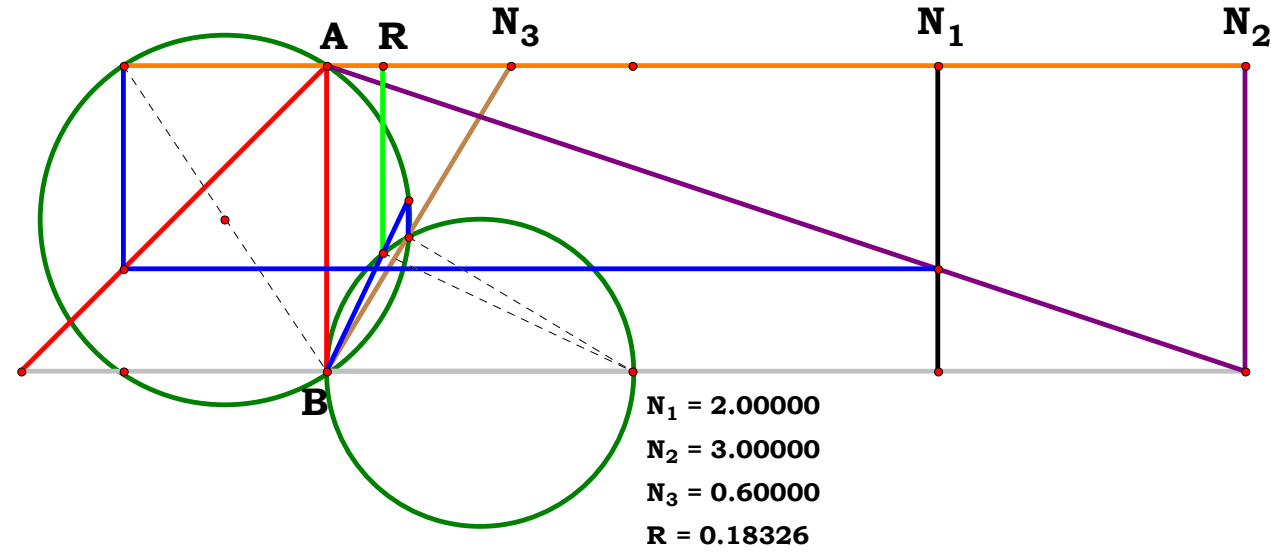
$$R - \frac{2 \cdot Y \cdot Z^4 \cdot (\sqrt{o})^2}{(Z^2 + q^2) \cdot \left(\sqrt{o} \cdot \sqrt{2 \cdot o \cdot Y^2 \cdot Z^2 \cdot q^2 - 3 \cdot o \cdot Y^2 \cdot Z^4 + o \cdot Y^2 \cdot q^4 - 4 \cdot X \cdot p \cdot Y \cdot Z^4 - 4 \cdot X \cdot p \cdot Y \cdot Z^2 \cdot q^2 + Y \cdot Z^2 \cdot o - 2 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2} \right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.27357$ $N_2 := 2.74817$ $N_3 := .52517$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

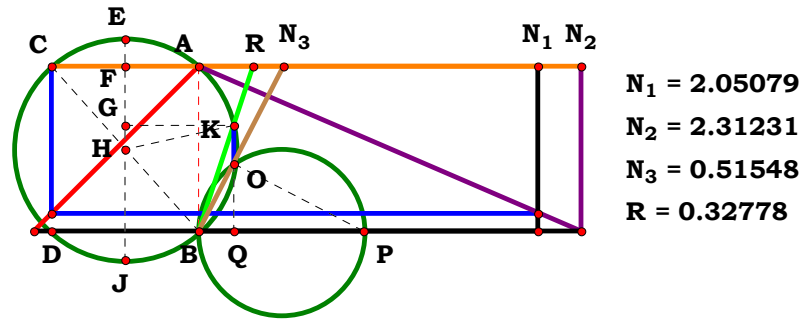
$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\frac{(2 \cdot N_2 \cdot N_3^4)}{(N_3^2 + 1) \cdot \left(((N_2 - 2 \cdot N_1 \cdot N_3^2) + N_2 \cdot N_3^2) + \sqrt{N_2^2 - 4 \cdot N_1 \cdot N_2 \cdot N_3^2 \cdot (N_3^2 + 1) - N_2^2 \cdot N_3^2 \cdot (3 \cdot N_3^2 - 2)} \right)} - R = 0.00000$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.05079$ $N_2 := 2.31231$ $N_3 := .51548$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

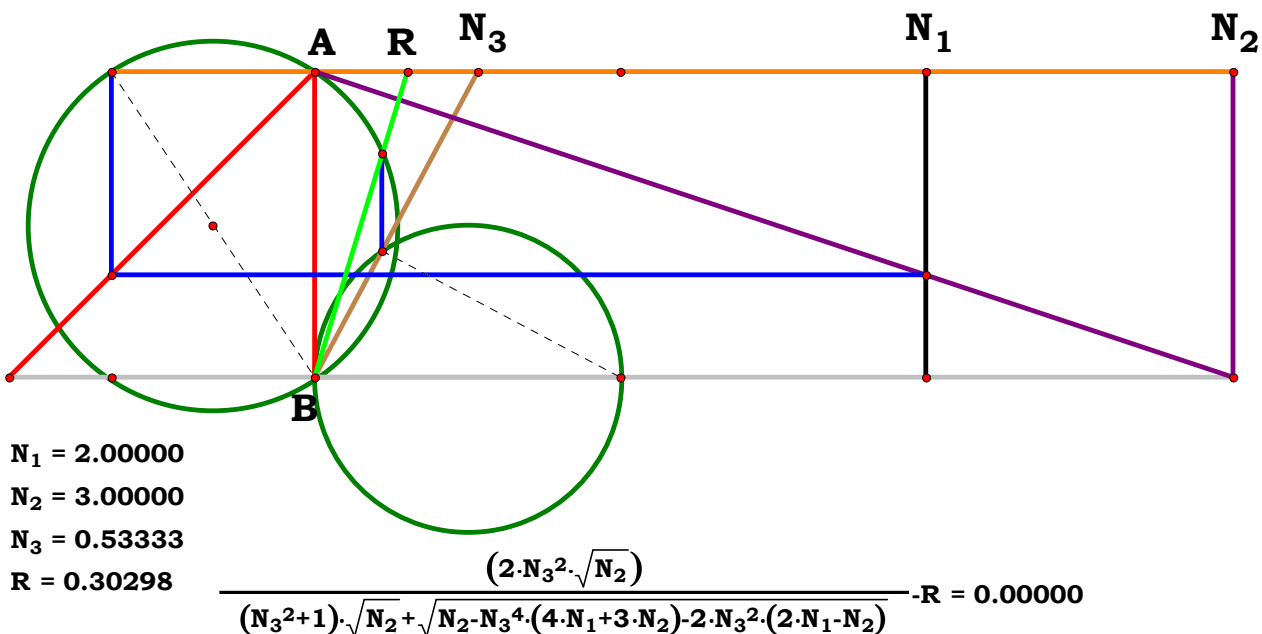
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad R := \frac{GK - AF}{AB - FG}$$

$$R = 0.327778$$

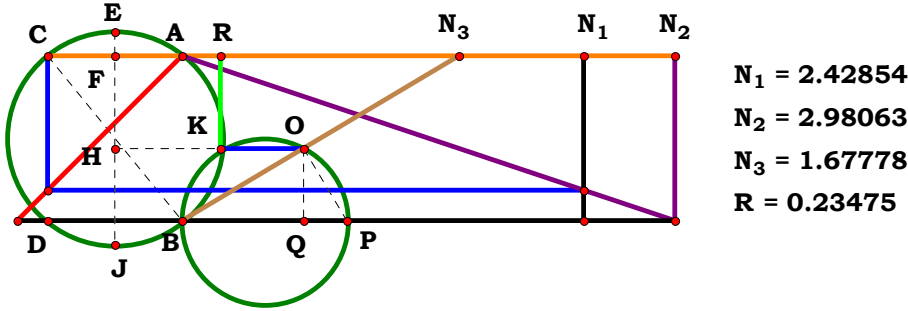


Definitions.

$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_3^2}{\sqrt{N_2} \cdot (N_3^2 + 1) + \sqrt{N_2 - N_3^4 \cdot (4 \cdot N_1 + 3 \cdot N_2) - 2 \cdot N_3^2 \cdot (2 \cdot N_1 - N_2)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) + \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot (C^2 - N_u^2) \cdot (C^2 + 3 \cdot N_u^2) - 4 \cdot B \cdot N_u^2 \cdot (C^2 + N_u^2)]} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot \sqrt{Y} \cdot Z^2 \cdot \sqrt{o \cdot p}}{\sqrt{p} \cdot \sqrt{Y \cdot o \cdot (q - Z) \cdot (Z + q) \cdot (3 \cdot Z^2 + q^2) - [4 \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2)]} + \sqrt{o \cdot p} \cdot \sqrt{Y} \cdot (Z^2 + q^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := 2.98063$ $N_3 := 1.67778$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

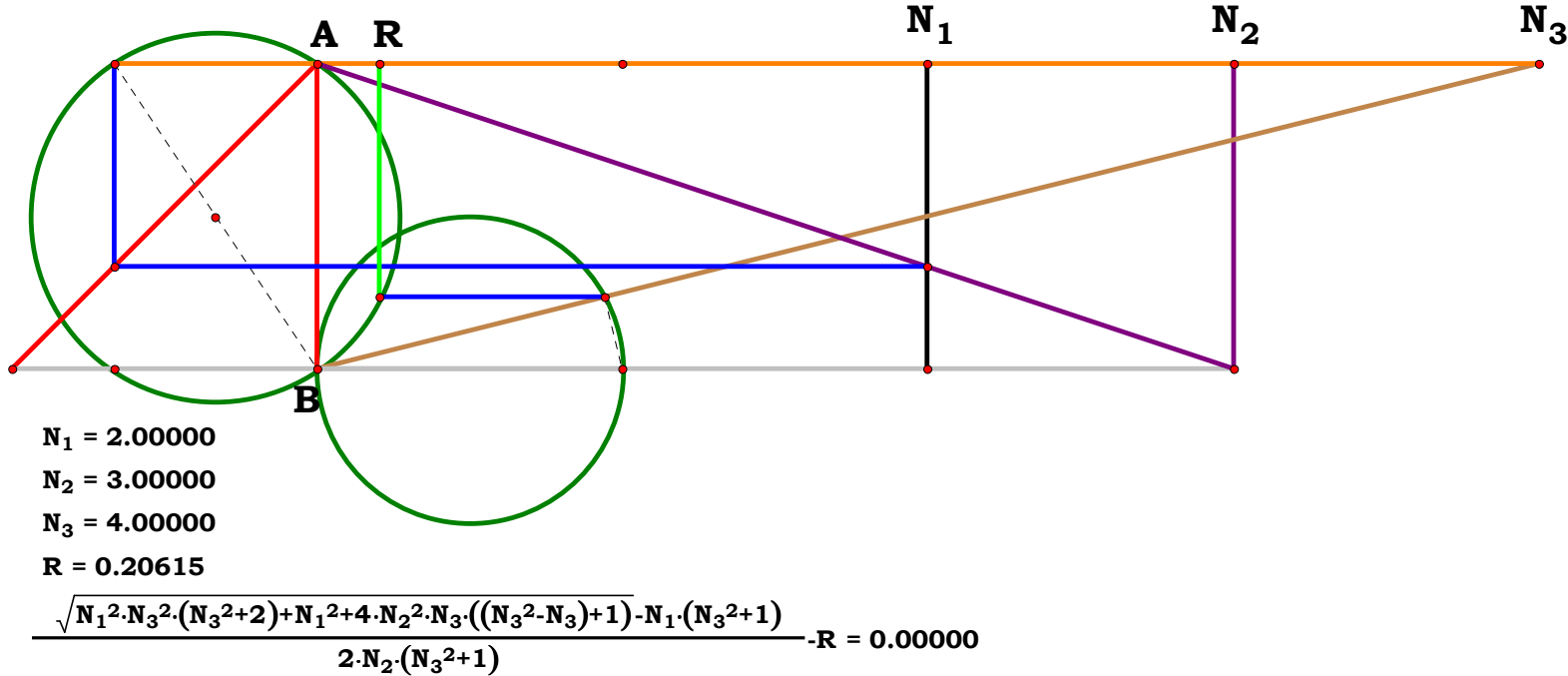
$$AC := \frac{N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \qquad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \qquad R := HK - AF$$

$$R = 0.234749$$



Definitions.

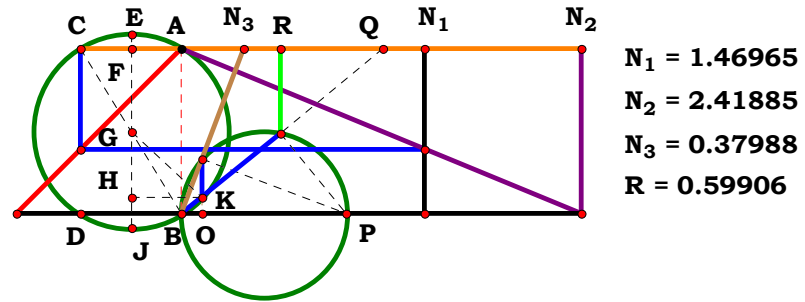
$$R - \frac{\sqrt{N_1^2 \cdot N_3^2 \cdot (N_3^2 + 2) + N_1^2 + 4 \cdot N_2^2 \cdot N_3 \cdot (N_3^2 - N_3 + 1) - N_1 \cdot (N_3^2 + 1)}}{2 \cdot N_2 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{2 \cdot A \cdot (C^2 + N_u^2)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot Y^2 \cdot Z \cdot o^2 \cdot q \cdot (Z^2 - Z \cdot q + q^2) + X^2 \cdot p^2 \cdot (Z^2 + q^2)^2 - X \cdot p \cdot (Z^2 + q^2)}}{2 \cdot Y \cdot o \cdot (Z^2 + q^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.41885$ $N_3 := .37988$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

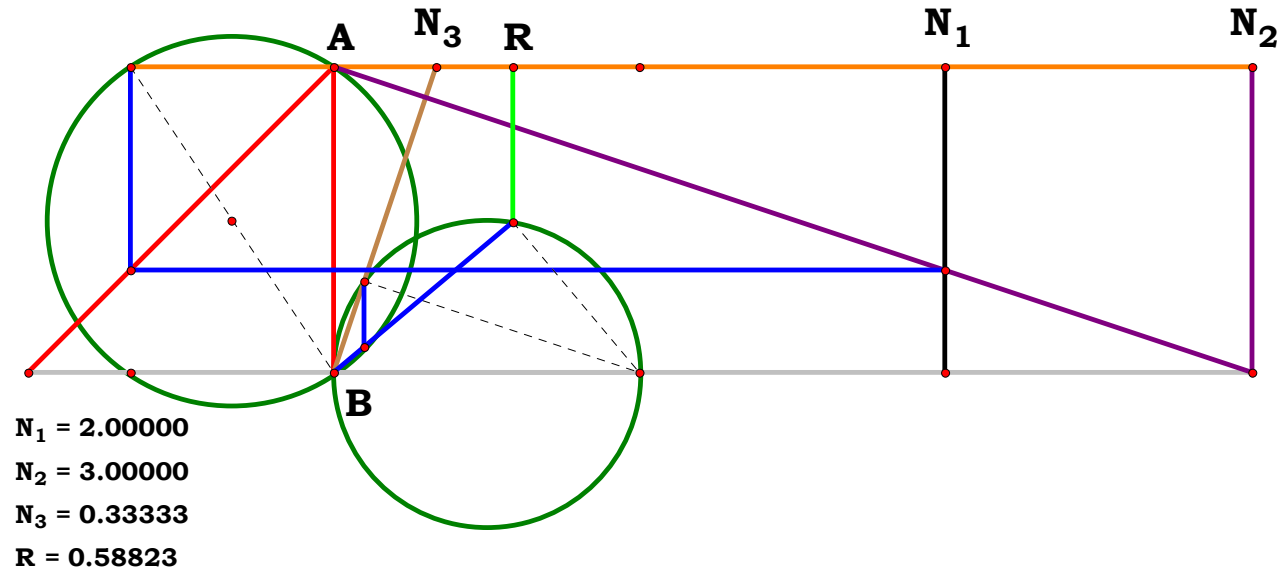
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BO := \frac{N_3^2}{N_3^2 + 1} \quad GK := \frac{EJ}{2}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad AQ := \frac{BO}{KO}$$

$$R := \frac{AQ^2}{AQ^2 + 1} \quad R = 0.599061$$



$$\frac{(2 \cdot N_2 \cdot N_3^4)}{(N_3^2 + 1) \cdot (((N_2 - 2 \cdot N_1 \cdot N_3^2) + N_2 \cdot N_3^2) - \sqrt{N_2^2 - N_2 \cdot N_3^4 \cdot (4 \cdot N_1 + 3 \cdot N_2) - 2 \cdot N_2 \cdot N_3^2 \cdot (2 \cdot N_1 - N_2)}}) - R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot N_2 \cdot N_3^4}{(N_3^2 + 1) \cdot [N_2 - 2 \cdot N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - \sqrt{N_2^2 - N_2 \cdot N_3^4 \cdot (4 \cdot N_1 + 3 \cdot N_2) - 2 \cdot N_2 \cdot N_3^2 \cdot (2 \cdot N_1 - N_2)}}] = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{(C^2 + N_u^2) \cdot [A \cdot C^2 - \sqrt{A} \cdot \sqrt{A \cdot (C^2 - N_u^2) \cdot (C^2 + 3 \cdot N_u^2) - 4 \cdot B \cdot N_u^2 \cdot (C^2 + N_u^2)} + N_u^2 \cdot (A - 2 \cdot B)] = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Y \cdot Z^4 \cdot (\sqrt{o})^2}{(Z^2 + q^2) \cdot [Z^2 \cdot (Y \cdot o - 2 \cdot X \cdot p) + Y \cdot o \cdot q^2 - \sqrt{o} \cdot \sqrt{Y^2 \cdot o \cdot (q - Z) \cdot (Z + q) \cdot (3 \cdot Z^2 + q^2) - 4 \cdot Y \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2)}}] = 0$$



Descriptions.

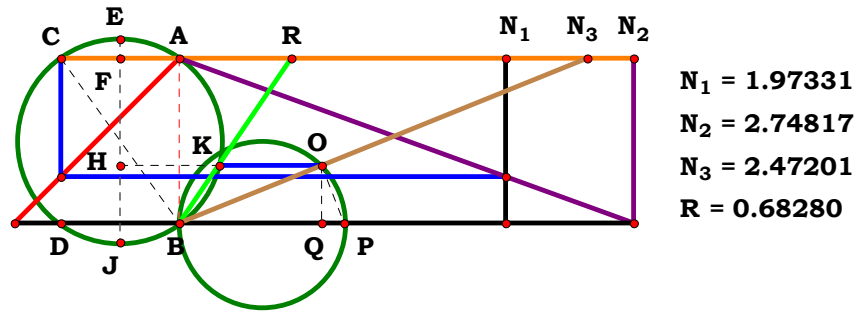
$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$OQ := \frac{N_3}{N_3^2 + 1} \quad HJ := OQ + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HK - AF}{OQ}$$

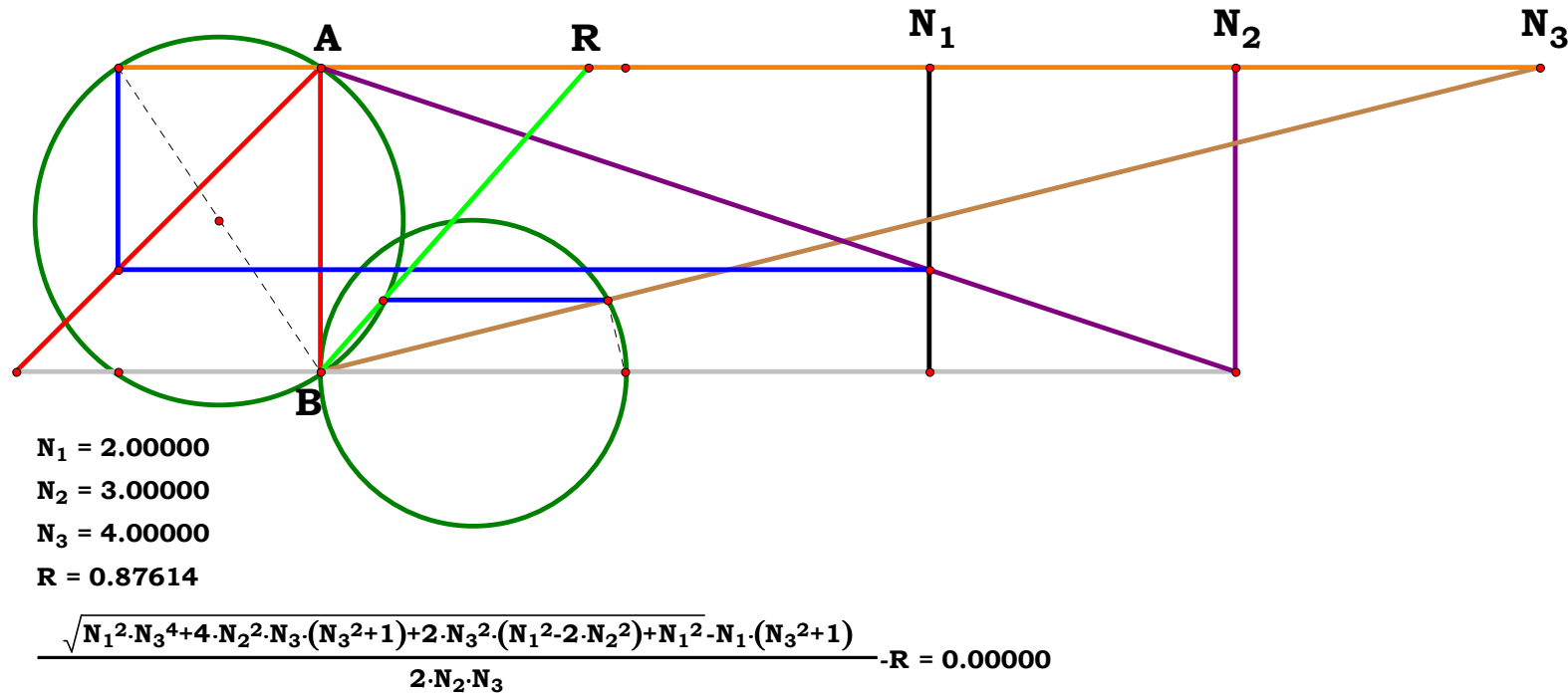
$$R = 0.682803$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.97331 \quad N_2 := 2.74817 \quad N_3 := 2.47201$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



Definitions.

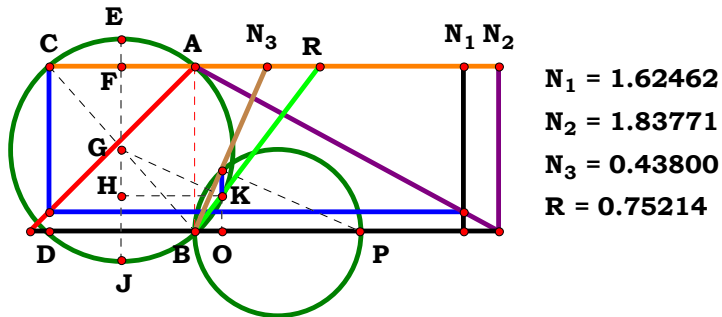
$$R - \frac{\sqrt{N_1^2 \cdot N_3^4 + 4 \cdot N_2^2 \cdot N_3 \cdot (N_3^2 + 1) + 2 \cdot N_3^2 \cdot (N_1^2 - 2 \cdot N_2^2) + N_1^2 - N_1 \cdot (N_3^2 + 1)}}{2 \cdot N_2 \cdot N_3} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{2 \cdot A \cdot C \cdot N_u} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot Y^2 \cdot Z \cdot o^2 \cdot q \cdot (Z^2 - Z \cdot q + q^2) + X^2 \cdot p^2 \cdot (Z^2 + q^2)^2 - X \cdot Z^2 \cdot p - X \cdot p \cdot q^2}}{2 \cdot Y \cdot Z \cdot o \cdot q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.62462$ $N_2 := 1.83771$ $N_3 := .43800$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

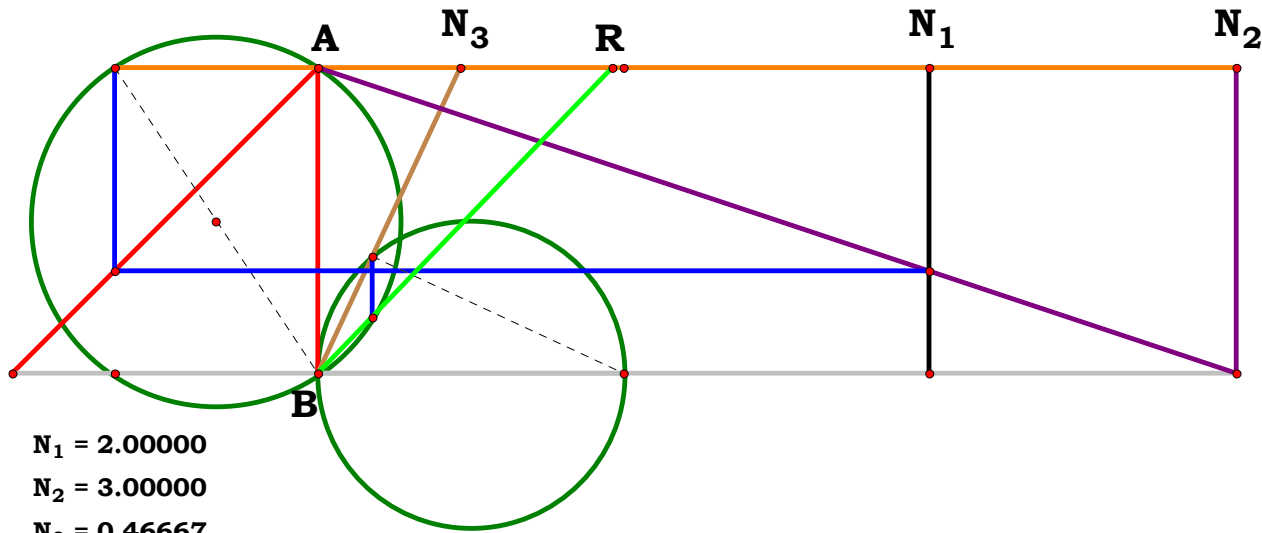
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$GK := \frac{EJ}{2} \quad BO := \frac{N_3^2}{N_3^2 + 1}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad R := \frac{BO}{KO}$$

$$R = 0.752138$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.46667$
 $R = 0.96312$

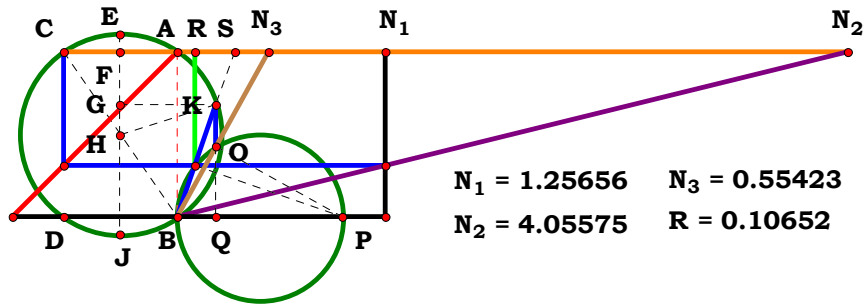
$$\frac{2 \cdot N_3^2 \cdot \sqrt{N_2}}{(N_3^2 + 1) \cdot \sqrt{N_2} - \sqrt{(N_2 + 2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1)) - N_3^4 \cdot (4 \cdot N_1 + 3 \cdot N_2)}} \cdot R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_3^2}{\sqrt{N_2} \cdot (N_3^2 + 1) - \sqrt{N_2 + 2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1)} - N_3^4 \cdot (4 \cdot N_1 + 3 \cdot N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)]} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot \sqrt{Y} \cdot Z^2 \cdot \sqrt{o \cdot p}}{\sqrt{Y} \cdot \sqrt{o \cdot p} \cdot (Z^2 + q^2) - \sqrt{p} \cdot \sqrt{Y \cdot o \cdot (q - Z) \cdot (Z + q) \cdot (3 \cdot Z^2 + q^2)} - 4 \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.25656$ $N_2 := 4.05575$ $N_3 := .55423$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

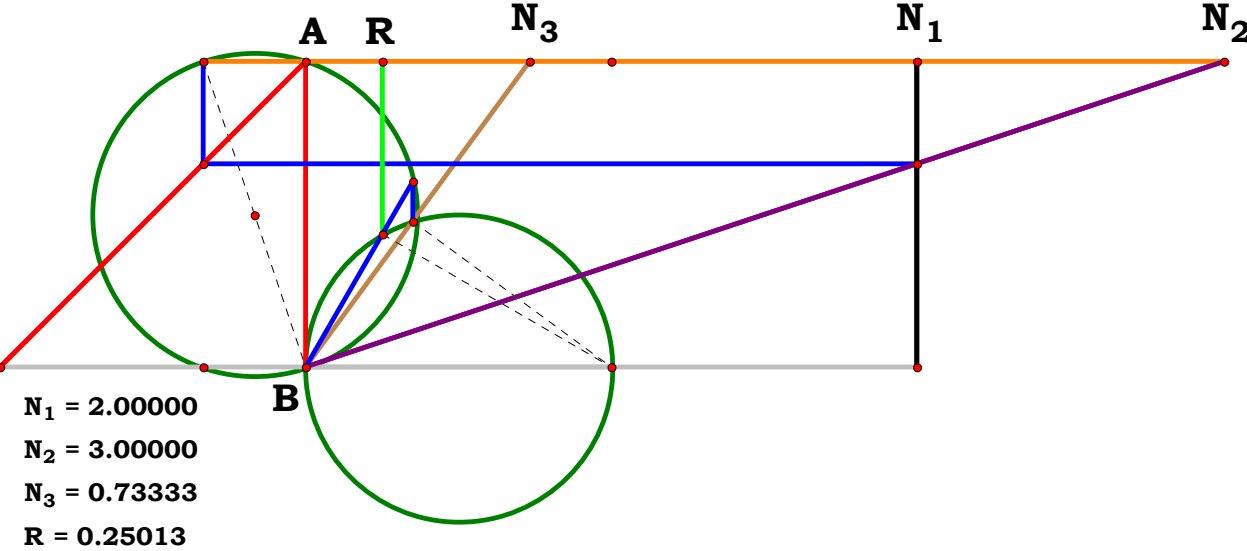
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad AS := \frac{GK - AF}{AB - FG}$$

$$R := \frac{AS^2}{AS^2 + 1} \quad R = 0.106528$$



$$\frac{(2 \cdot N_2 \cdot N_3^4)}{(N_3^2 + 1) \cdot (((N_2 + 2 \cdot N_1 \cdot N_3^2) - N_2 \cdot N_3^2) + \sqrt{(N_2^2 - 2 \cdot N_2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1)) + N_2 \cdot N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2)})} \cdot R = 0.00000$$

Definitions.

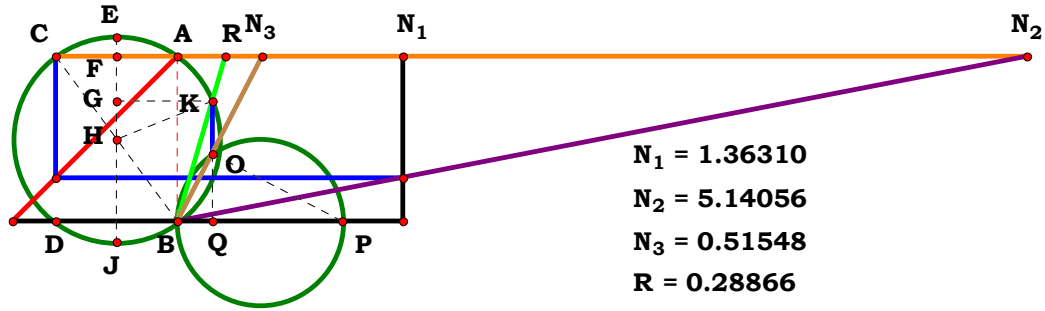
$$R - \frac{2 \cdot N_2 \cdot N_3^4}{(N_3^2 + 1) \cdot [N_2 + 2 \cdot N_1 \cdot N_3^2 - N_2 \cdot N_3^2 + \sqrt{N_2^2 - 2 \cdot N_2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1) + N_2 \cdot N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2)}]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{(C^2 + N_u^2) \cdot [\sqrt{A} \cdot \sqrt{A \cdot C^4 - A \cdot N_u^2 \cdot (2 \cdot C^2 + 7 \cdot N_u^2)} + 4 \cdot B \cdot N_u^2 \cdot (C^2 + N_u^2) + A \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B)]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Y \cdot Z^4 \cdot (\sqrt{o})^2}{(Z^2 + q^2) \cdot [\sqrt{o} \cdot \sqrt{4 \cdot Y \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2)} - Y^2 \cdot o \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4) + Z^2 \cdot (2 \cdot X \cdot p - Y \cdot o) + Y \cdot o \cdot q^2]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.36310$ $N_2 := 5.14056$ $N_3 := .51548$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

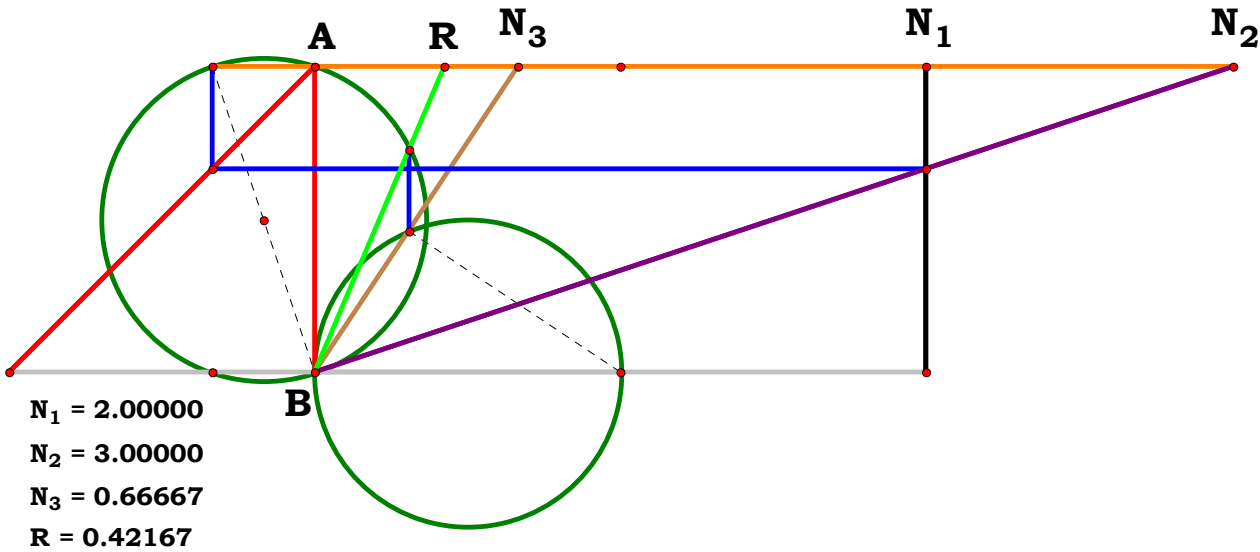
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BQ := \frac{N_3^2}{N_3^2 + 1} \quad GK := BQ + AF$$

$$HK := \frac{EJ}{2} \quad GH := \sqrt{HK^2 - GK^2}$$

$$FG := HK - (GH + EF) \quad R := \frac{GK - AF}{AB - FG}$$

$$R = 0.288656$$



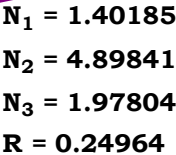
$$\frac{(2 \cdot N_3^2 \cdot \sqrt{N_2})}{(N_3^2 + 1) \cdot \sqrt{N_2} + \sqrt{(N_2 - 2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1)) + N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2)}} \cdot R = 0.00000$$

Definitions.

$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_3^2}{\sqrt{N_2} \cdot (N_3^2 + 1) + \sqrt{N_2 - 2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1) + N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{B} \cdot \sqrt{N_u} \cdot (A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C^2 + N_u^2)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot \sqrt{Y} \cdot Z^2 \cdot \sqrt{o \cdot p}}{\sqrt{p} \cdot \sqrt{4 \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2) - Y \cdot o \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)} + \sqrt{o \cdot p} \cdot \sqrt{Y} \cdot (Z^2 + q^2)} = 0$$



Unit. AB := 1 Given. $N_1 := 1.40185$ $N_2 := 4.89841$ $N_3 := 1.97804$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{x} := 20 \quad \mathbf{y} := 19 \quad \mathbf{z} := 18 \quad \mathbf{o} := \frac{\mathbf{x}}{N_1} \quad \mathbf{p} := \frac{\mathbf{y}}{N_2} \quad \mathbf{q} := \frac{\mathbf{z}}{N_3}$$

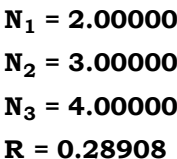
$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{OQ} := \frac{\mathbf{N}_3}{\mathbf{N}_3^2 + 1} \quad \mathbf{HJ} := \mathbf{OQ} + \mathbf{EF}$$

$$\mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})} \quad \mathbf{R} := \mathbf{HK} - \mathbf{AF}$$

R = 0.249644



$$\frac{(N_3^2+1) \cdot (N_1 \cdot N_2) + \sqrt{((N_3^4 \cdot (N_1 \cdot N_2))^2 + 4 \cdot N_2^2 \cdot N_3 \cdot (N_3^2+1) + 2 \cdot N_3^2 \cdot (N_1^2 - 2 \cdot N_1 \cdot N_2 \cdot N_2^2) + N_1^2) - 2 \cdot N_1 \cdot N_2) + N_2^2}}{2 \cdot N_2 \cdot (N_3^2+1)} - R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{\left(\mathbf{N}_3^2 + 1\right) \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right) + \sqrt{\mathbf{N}_3^4 \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right)^2 + 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot \left(\mathbf{N}_3^2 + 1\right) + 2 \cdot \mathbf{N}_3^2 \cdot \left(\mathbf{N}_1^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 - \mathbf{N}_2^2\right) + \mathbf{N}_1^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 + \mathbf{N}_2^2}}{2 \cdot \mathbf{N}_2 \cdot \left(\mathbf{N}_3^2 + 1\right)} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^4 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{N}_{\mathbf{u}}^4) - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (2 \cdot \mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})}}{2 \cdot \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)} = \mathbf{0} \quad \mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{\left(\mathbf{N}_3^2 + 1\right) \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right) + \sqrt{\mathbf{N}_3^4 \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right)^2 + 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot \left(\mathbf{N}_3^2 + 1\right) + 2 \cdot \mathbf{N}_3^2 \cdot \left(\mathbf{N}_1^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 - \mathbf{N}_2^2\right) + \mathbf{N}_1^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 + \mathbf{N}_2^2}}{2 \cdot \mathbf{N}_2 \cdot \left(\mathbf{N}_3^2 + 1\right)} = 0$$



4RST10AAB6R3

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

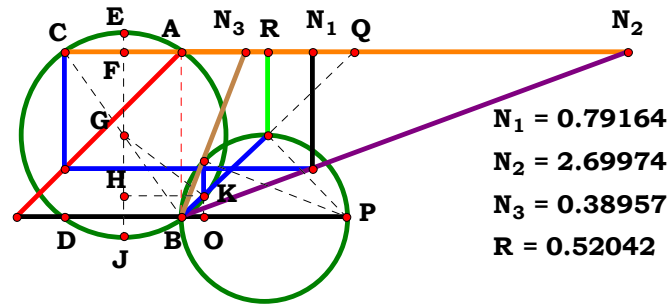
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BO := \frac{N_3^2}{N_3^2 + 1} \quad GK := \frac{EJ}{2}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad AQ := \frac{BO}{KO}$$

$$R := \frac{AQ^2}{AQ^2 + 1} \quad R = 0.520417$$

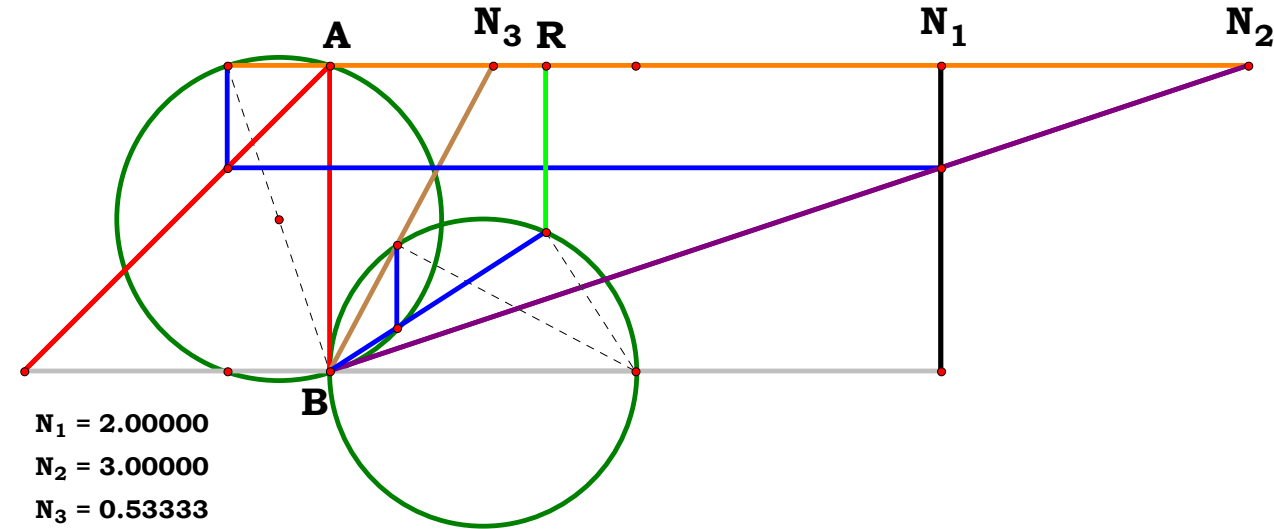


$$\begin{aligned} N_1 &= 0.79164 \\ N_2 &= 2.69974 \\ N_3 &= 0.38957 \\ R &= 0.52042 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .79164 \quad N_2 := 2.69974 \quad N_3 := .38957$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ N_3 &= 0.53333 \\ R &= 0.70448 \end{aligned}$$

$$\frac{(2 \cdot N_2 \cdot N_3^4)}{(N_3^2 + 1) \cdot ((N_2 + N_3^2 \cdot (2 \cdot N_1 - N_2)) - \sqrt{N_2 \cdot N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2) + 2 \cdot N_2 \cdot N_3^2 \cdot (2 \cdot N_1 - N_2) + N_2^2})} - R = 0.00000$$

Definitions.

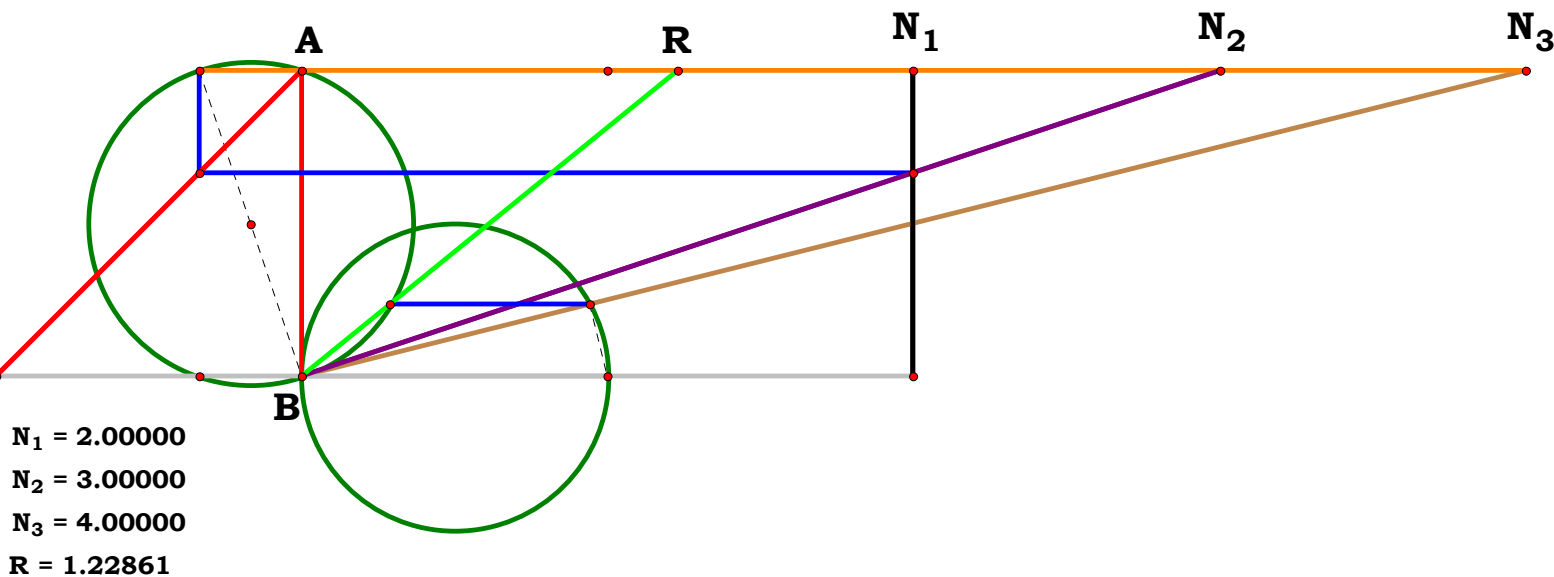
$$R - \frac{2 \cdot N_2 \cdot N_3^4}{(N_3^2 + 1) \cdot [N_2 + N_3^2 \cdot (2 \cdot N_1 - N_2) - \sqrt{N_2 \cdot N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2) + 2 \cdot N_2 \cdot N_3^2 \cdot (2 \cdot N_1 - N_2) + N_2^2}]} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{(C^2 + N_u^2) \cdot [A \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)}]} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot Y \cdot Z^4 \cdot (\sqrt{o})^2}{(Z^2 + q^2) \cdot [Z^2 \cdot (2 \cdot X \cdot p - Y \cdot o) + Y \cdot o \cdot q^2 - \sqrt{o} \cdot \sqrt{4 \cdot Y \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2) - Y^2 \cdot o \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)}]} = 0$$



$$\mathbf{x} := 20 \quad \mathbf{y} := 19 \quad \mathbf{z} := 18 \quad \mathbf{o} := \frac{\mathbf{x}}{N_1} \quad \mathbf{p} := \frac{\mathbf{y}}{N_2} \quad \mathbf{q} := \frac{\mathbf{z}}{N_3}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{OQ} := \frac{\mathbf{N}_3}{\mathbf{N}_3^2 + 1} \quad \mathbf{HJ} := \mathbf{OQ} + \mathbf{EF}$$

$$\mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})} \quad \mathbf{R} := \frac{\mathbf{HK} - \mathbf{AF}}{\mathbf{OQ}}$$

R = 0.704559

$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $R = 1.22861$

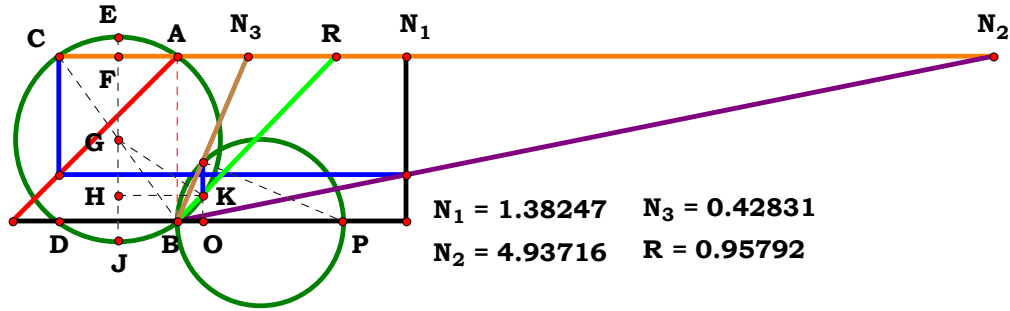
$$\frac{(N_3^2+1) \cdot (N_1-N_2) + \sqrt{((N_3^4+1) \cdot (N_1-N_2)^2 - 2 \cdot N_3^2 \cdot ((2 \cdot N_1 \cdot N_2 - N_1^2) + N_2^2)) + 4 \cdot N_2^2 \cdot N_3 \cdot (N_3^2+1)}}{(2 \cdot N_2 \cdot N_3)} \cdot R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{\left(\mathbf{N}_3^2 + 1\right) \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right) + \sqrt{\left(\mathbf{N}_3^4 + 1\right) \cdot \left(\mathbf{N}_1 - \mathbf{N}_2\right)^2 - 2 \cdot \mathbf{N}_3^2 \cdot \left(2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_2 - \mathbf{N}_1^2 + \mathbf{N}_2^2\right) + 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot \left(\mathbf{N}_3^2 + 1\right)}}{2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^4 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (2 \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}}) + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (4 \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}}) - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (2 \cdot \mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})}}{2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} \cdot \mathbf{C}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y}^2 \cdot \mathbf{o}^2 \cdot (\mathbf{Z}^4 + 4 \cdot \mathbf{Z}^3 \cdot \mathbf{q} - 2 \cdot \mathbf{Z}^2 \cdot \mathbf{q}^2 + 4 \cdot \mathbf{Z} \cdot \mathbf{q}^3 + \mathbf{q}^4) + \mathbf{X} \cdot \mathbf{p} \cdot (\mathbf{Z}^2 + \mathbf{q}^2)^2 \cdot (\mathbf{X} \cdot \mathbf{p} - 2 \cdot \mathbf{Y} \cdot \mathbf{o}) + (\mathbf{Z}^2 + \mathbf{q}^2) \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})}}{2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 4.93716$ $N_3 := .42831$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

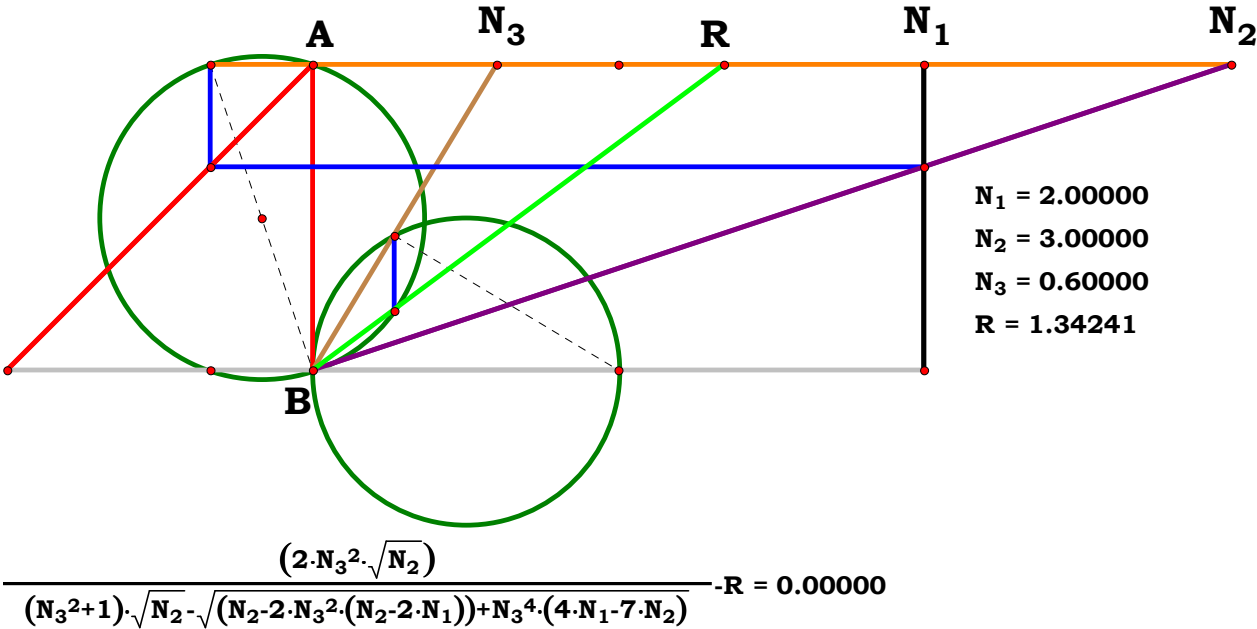
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$GK := \frac{EJ}{2} \quad BO := \frac{N_3^2}{N_3^2 + 1}$$

$$HK := AF + BO \quad GH := \sqrt{GK^2 - HK^2}$$

$$KO := GK - (GH + EF) \quad R := \frac{BO}{KO}$$

$$R = 0.957918$$

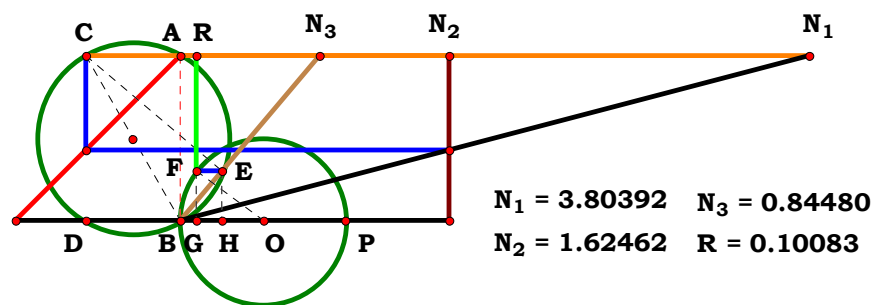


Definitions.

$$R - \frac{2 \cdot \sqrt{N_2} \cdot N_3^2}{\sqrt{N_2} \cdot (N_3^2 + 1) - \sqrt{N_2 - 2 \cdot N_3^2 \cdot (N_2 - 2 \cdot N_1)} + N_3^4 \cdot (4 \cdot N_1 - 7 \cdot N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{B} \cdot \sqrt{-N_u \cdot [N_u^4 \cdot (7 \cdot A - 4 \cdot B) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)]}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{2 \cdot \sqrt{Y} \cdot Z^2 \cdot \sqrt{o \cdot p}}{\sqrt{o \cdot p} \cdot \sqrt{Y} \cdot (Z^2 + q^2) - \sqrt{p} \cdot \sqrt{4 \cdot X \cdot Z^2 \cdot p \cdot (Z^2 + q^2) - Y \cdot o \cdot (7 \cdot Z^4 + 2 \cdot Z^2 \cdot q^2 - q^4)}} = 0$$

Unit. AB := 1 Given. $N_1 := 3.80392$ $N_2 := 1.62462$ $N_3 := .84480$

$$\begin{array}{llll} \mathbf{N_u} := 3 & \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} & \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} & \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \\ & \mathbf{X} := 20 & \mathbf{Y} := 19 & \mathbf{Z} := 18 \end{array} \quad \begin{array}{lll} \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N_1}} & \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N_2}} & \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N_3}} \end{array}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2}$$

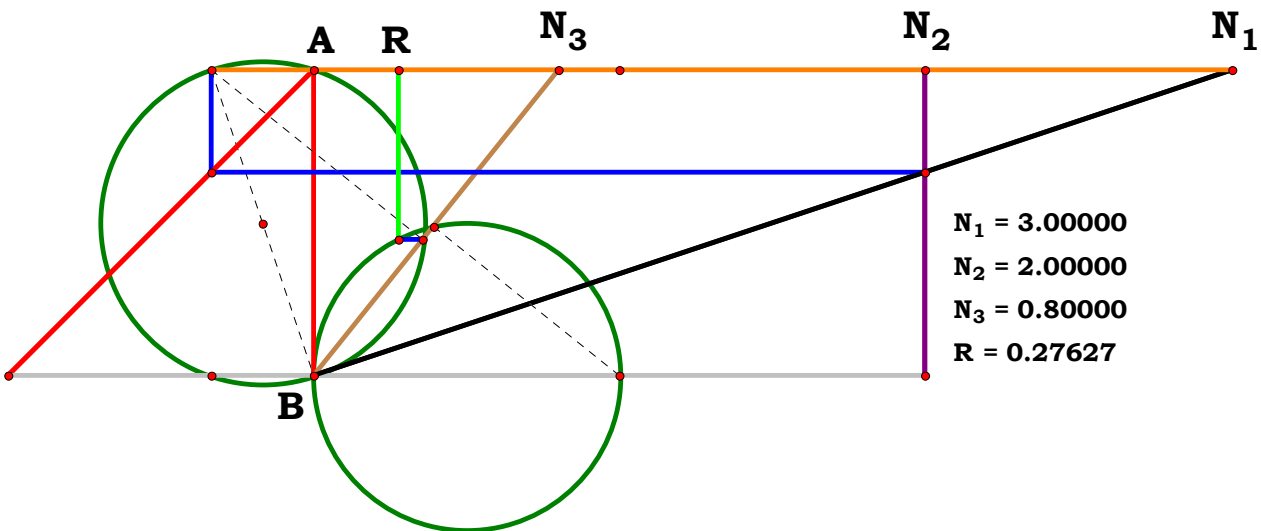
$$\mathbf{CN}_3 := \mathbf{AC} + \mathbf{N}_3 \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

$$\mathbf{BE} := \mathbf{BN}_3 - \mathbf{EN}_3 \quad \mathbf{EH} := \frac{\mathbf{BE}}{\mathbf{BN}_3}$$

$$\mathbf{FG} := \mathbf{EH} \quad \mathbf{BP} := \mathbf{AB}$$

$$\mathbf{FO} := \frac{\mathbf{BP}}{2} \quad \mathbf{GO} := \sqrt{\mathbf{FO}^2 - \mathbf{FG}^2}$$

R := FO – GO R = 0.100834



$$\frac{N_1 \cdot (N_3^2 + 1) - \sqrt{(2 \cdot N_1 \cdot N_3 - N_1 \cdot N_3^2 - 3 \cdot N_1 \cdot 2 \cdot N_2 \cdot N_3) \cdot ((N_1 - N_1 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3) + 2 \cdot N_2 \cdot N_3)}}{2 \cdot N_1 \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{\sqrt{\left(\mathbf{N}_3^2 + 1\right)^2} - \sqrt{\mathbf{N}_3^2 \cdot \left(\mathbf{N}_3^2 + 2\right) - 4 \cdot \mathbf{AC} \cdot \mathbf{N}_3 \cdot \left(\mathbf{AC} \cdot \mathbf{N}_3 - 2\right) - 3}}{2 \cdot \sqrt{\mathbf{N}_3^4 + 2 \cdot \mathbf{N}_3^2 + 1}} = 0$$

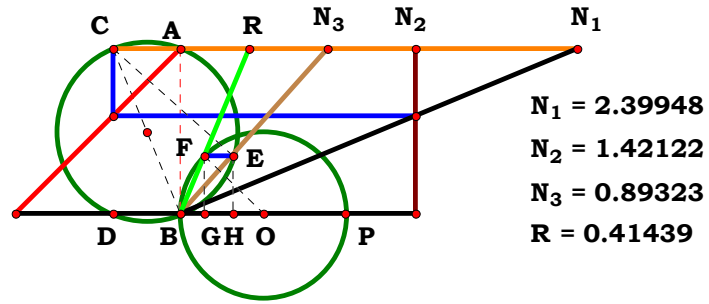
$$\mathbf{R} - \frac{\mathbf{N}_1 \cdot (\mathbf{N}_3^2 + 1) - \sqrt{(2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_3 - \mathbf{N}_1 \cdot \mathbf{N}_3^2 - 3 \cdot \mathbf{N}_1 - 2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3) \cdot (\mathbf{N}_1 - \mathbf{N}_1 \cdot \mathbf{N}_3^2 - 2 \cdot \mathbf{N}_1 \cdot \mathbf{N}_3 + 2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3)}}{2 \cdot \mathbf{N}_1 \cdot (\mathbf{N}_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) - \sqrt{(\mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_u + 2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u) \cdot (3 \cdot \mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_u^2 + 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_u - 2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u)}}{2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot \mathbf{B}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\mathbf{X} \cdot \mathbf{p} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) - \sqrt{[\mathbf{X} \cdot \mathbf{p} \cdot (\mathbf{Z} - \mathbf{q}) \cdot (\mathbf{Z} + \mathbf{q}) + 2 \cdot \mathbf{Z} \cdot \mathbf{q} \cdot (\mathbf{X} \cdot \mathbf{p} - \mathbf{Y} \cdot \mathbf{o})] \cdot (\mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} + 3 \cdot \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - 2 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q})}}{2 \cdot \mathbf{X} \cdot (\mathbf{Z}^2 + \mathbf{q}^2) \cdot \mathbf{p}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := .89323$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

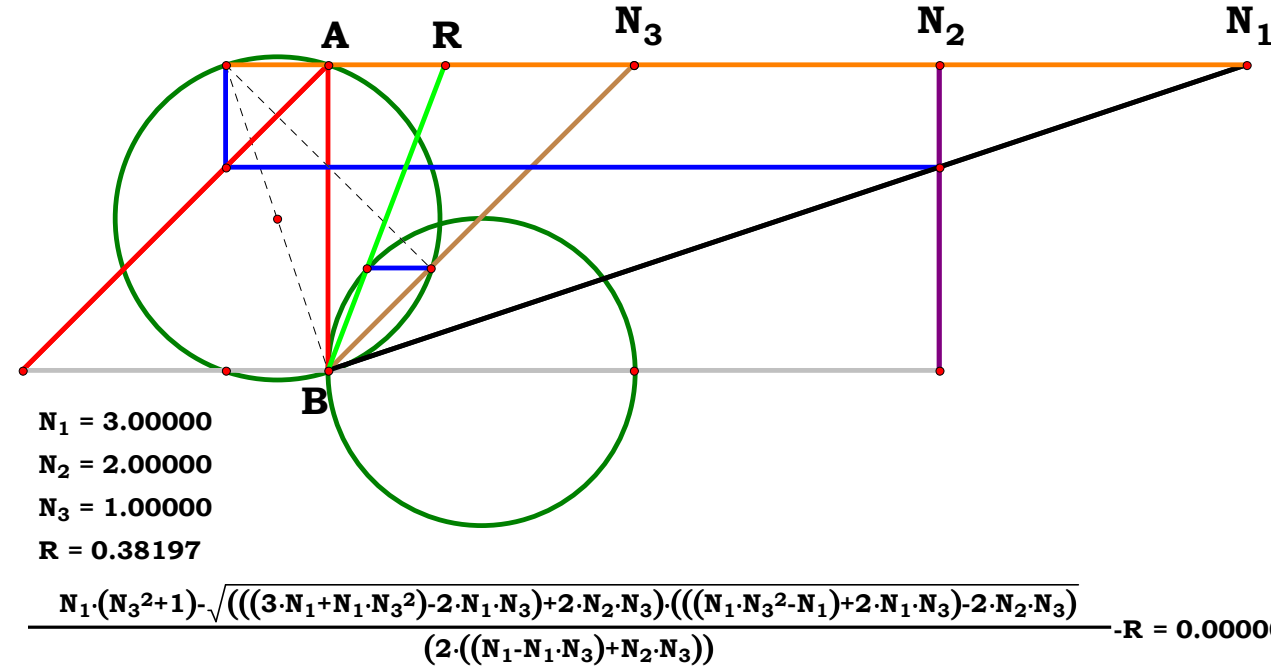
$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$BG := FO - GO \quad R := \frac{BG}{EH}$$

$$R = 0.414392$$



Definitions.

$$R - \frac{\left[\sqrt{N_3^4 - 4 \cdot AC \cdot N_3 \cdot (AC \cdot N_3 - 2) + 2 \cdot N_3^2 - 3} - \sqrt{(N_3^2 + 1)^2} \right] \cdot (N_3^2 + 1)}{2 \cdot \sqrt{(N_3^2 + 1)^2} \cdot (AC \cdot N_3 - 1)} = 0$$

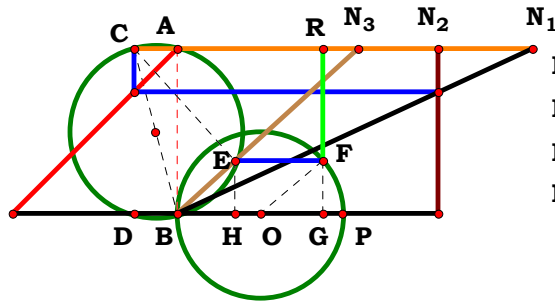
$$R - \frac{N_1 \cdot (N_3^2 + 1) - \sqrt{(3 \cdot N_1 + N_1 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 2 \cdot N_2 \cdot N_3) \cdot (N_1 \cdot N_3^2 - N_1 + 2 \cdot N_1 \cdot N_3 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$R - \frac{B \cdot (C^2 + N_u^2) - \sqrt{(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u)}}{2 \cdot C \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)} = 0$$

$$R - \frac{\sqrt{X^2 \cdot p^2 \cdot (Z^2 - 2 \cdot Z \cdot q + 3 \cdot q^2) \cdot (Z^2 + 2 \cdot Z \cdot q - q^2) + 8 \cdot X \cdot Y \cdot Z \cdot o \cdot p \cdot q^2 \cdot (Z - q) - 4 \cdot Y^2 \cdot Z^2 \cdot o^2 \cdot q^2 - X \cdot p \cdot (Z^2 + q^2)}}{2 \cdot q \cdot (X \cdot Z \cdot p - Y \cdot Z \cdot o - X \cdot p \cdot q)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$



$N_1 = 2.14765$
 $N_2 = 1.57619$
 $N_3 = 1.09663$
 $R = 0.88291$

Unit. $AB := 1$ Given. $N_1 := 2.14765$ $N_2 := 1.57619$ $N_3 := 1.09663$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

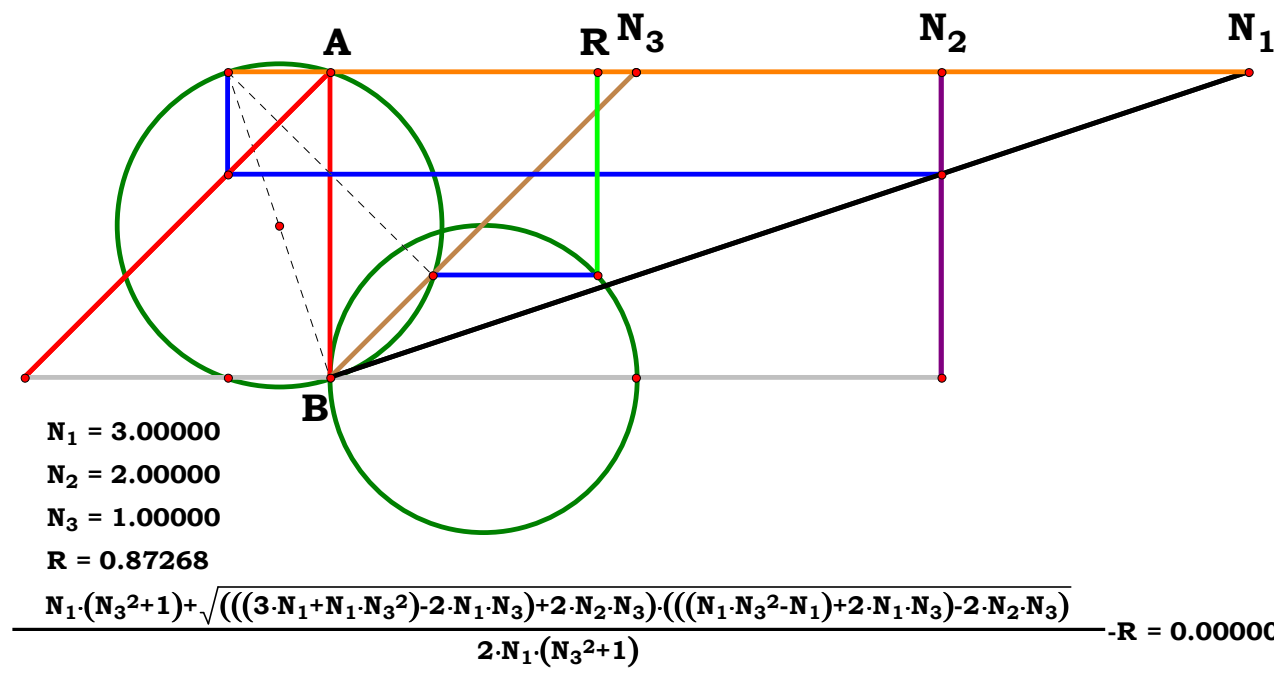
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO + GO \quad R = 0.882908$$



Definitions.

$$R - \frac{\sqrt{8 \cdot AC \cdot N_3 - 4 \cdot AC^2 \cdot N_3^2 + N_3^4 + 2 \cdot N_3^2 - 3} + \sqrt{(N_3^2 + 1)^2}}{2 \cdot \sqrt{(N_3^2 + 1)^2}} = 0$$

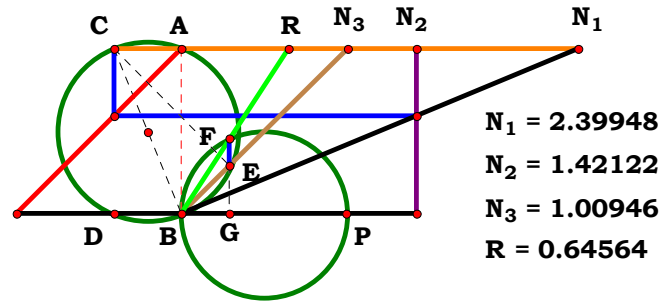
$$R - \frac{N_1 + N_1 \cdot N_3^2 + \sqrt{(3 \cdot N_1 + N_1 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 2 \cdot N_2 \cdot N_3) \cdot (N_1 \cdot N_3^2 - N_1 + 2 \cdot N_1 \cdot N_3 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot N_1 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u)} + B \cdot (C^2 + N_u^2)}{2 \cdot (C^2 + N_u^2) \cdot B} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(X \cdot Z^2 \cdot p - X \cdot p \cdot q^2 + 2 \cdot X \cdot Z \cdot p \cdot q - 2 \cdot Y \cdot Z \cdot o \cdot q) \cdot (X \cdot Z^2 \cdot p + 3 \cdot X \cdot p \cdot q^2 - 2 \cdot X \cdot Z \cdot p \cdot q + 2 \cdot Y \cdot Z \cdot o \cdot q)} + X \cdot p \cdot (Z^2 + q^2)}{2 \cdot X \cdot (Z^2 + q^2) \cdot p} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.00946$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

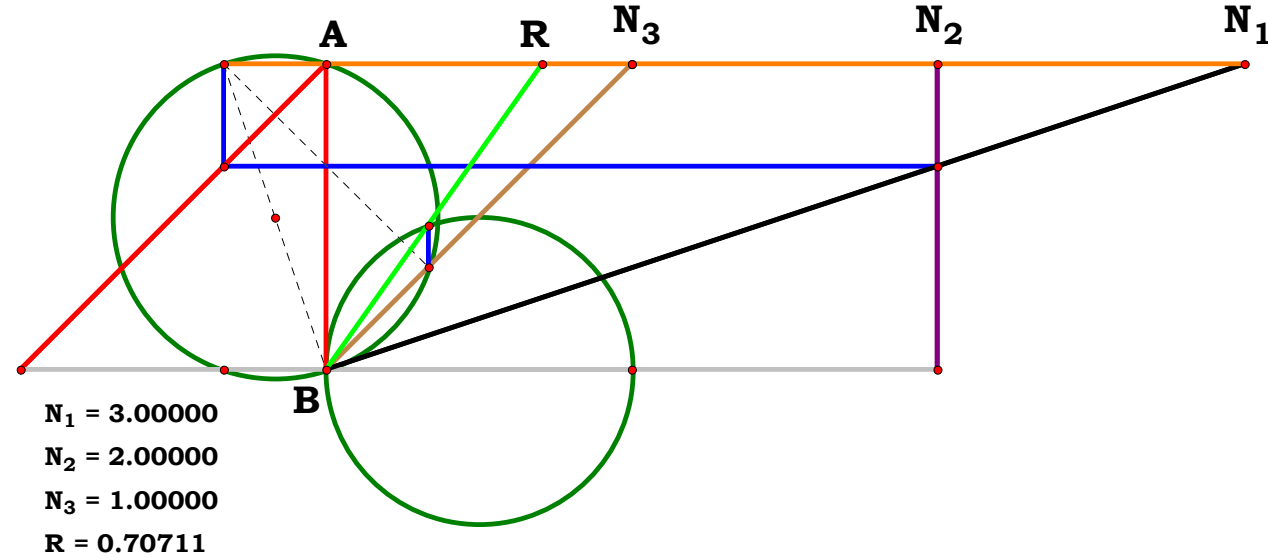
$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad BG := \frac{N_3 \cdot BE}{BN_3}$$

$$BP := AB \quad FG := \sqrt{BG \cdot (BP - BG)}$$

$$R := \frac{BG}{FG} \quad R = 0.645641$$



$$\frac{N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3)}{\sqrt{N_3 \cdot ((N_1 - N_1 \cdot N_3) + N_2 \cdot N_3) \cdot ((N_1 + 2 \cdot N_1 \cdot N_3^2) - N_2 \cdot N_3^2 - N_1 \cdot N_3)}} - R = 0.00000$$

Definitions.

$$R - \frac{N_3 \cdot \sqrt{(N_3^2 + 1)^2} \cdot (1 - AC \cdot N_3)}{(N_3^2 + 1) \cdot \sqrt{-N_3 \cdot (AC \cdot N_3 - 1) \cdot (N_3^2 - N_3 + AC \cdot N_3^2 + 1)}} = 0$$

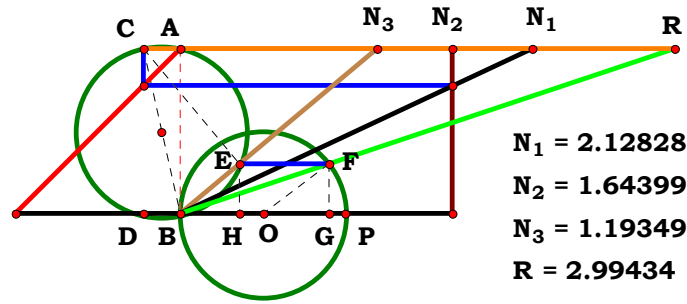
$$R - \frac{N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)}{\sqrt{N_3 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3) \cdot (N_1 + 2 \cdot N_1 \cdot N_3^2 - N_2 \cdot N_3^2 - N_1 \cdot N_3)}} = 0$$

$$R - \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u) \cdot [B \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - B \cdot C \cdot N_u]}} = 0$$

$$R - \frac{Z \cdot (Y \cdot Z \cdot o - X \cdot Z \cdot p + X \cdot p \cdot q)}{\sqrt{Z \cdot (X \cdot Z \cdot p - Y \cdot Z \cdot o - X \cdot p \cdot q) \cdot (Y \cdot Z^2 \cdot o - 2 \cdot X \cdot Z^2 \cdot p - X \cdot p \cdot q^2 + X \cdot Z \cdot p \cdot q)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.12828$ $N_2 := 1.64399$ $N_3 := 1.19349$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

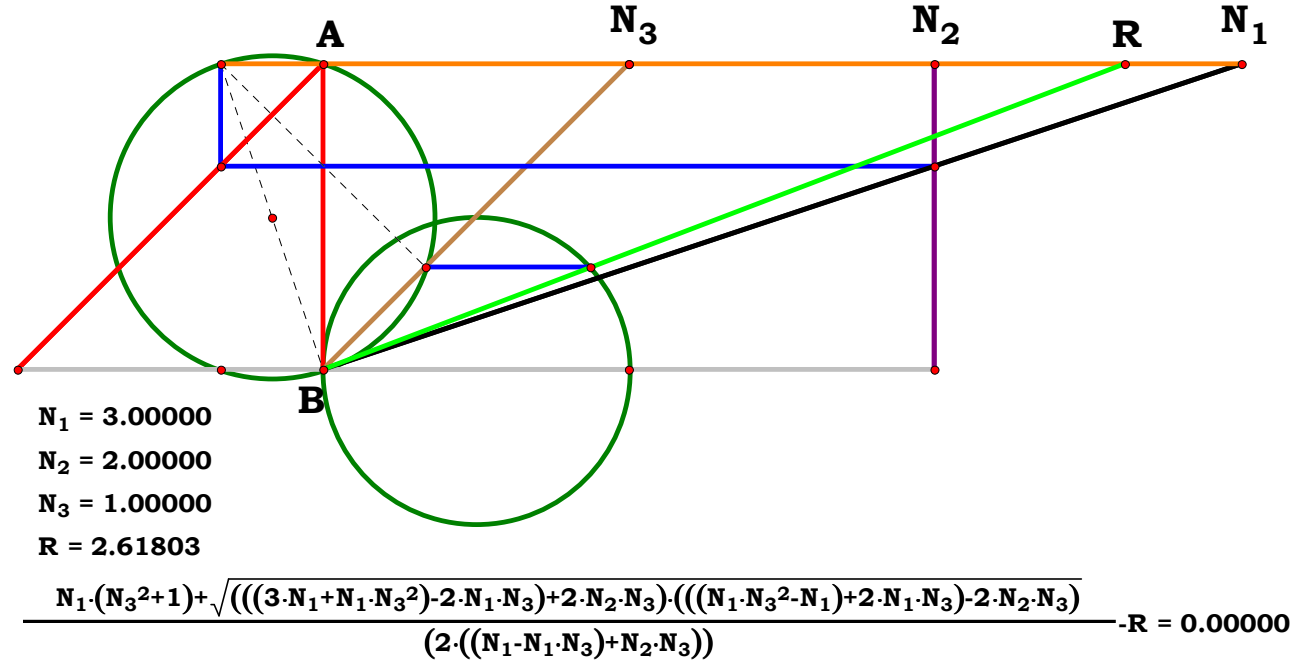
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad FG := \frac{BE}{BN_3}$$

$$BP := AB \quad OF := \frac{BP}{2}$$

$$GO := \sqrt{OF^2 - FG^2} \quad BG := OF + GO$$

$$R := \frac{BG}{FG} \quad R = 2.994357$$



Definitions.

$$R - \frac{\left[\sqrt{8 \cdot AC \cdot N_3 - 4 \cdot AC^2 \cdot N_3^2 + N_3^4 + 2 \cdot N_3^2 - 3} + \sqrt{(N_3^2 + 1)^2} \right] \cdot (N_3^2 + 1)}{2 \cdot \sqrt{(N_3^2 + 1)^2} \cdot (1 - AC \cdot N_3)} = 0$$

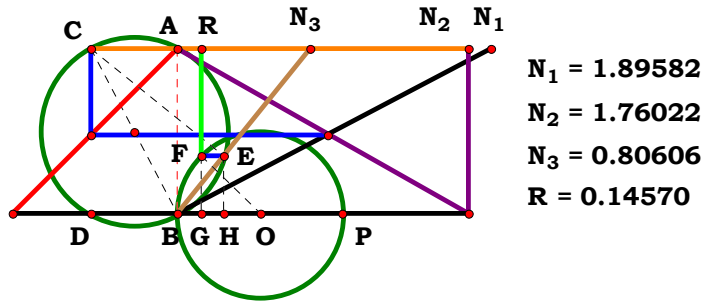
$$R - \frac{N_1 \cdot (N_3^2 + 1) + \sqrt{(3 \cdot N_1 + N_1 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 2 \cdot N_2 \cdot N_3) \cdot (N_1 \cdot N_3^2 - N_1 + 2 \cdot N_1 \cdot N_3 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_1 - N_1 \cdot N_3 + N_2 \cdot N_3)} = 0$$

$$R - \frac{\sqrt{(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u)} + B \cdot (C^2 + N_u^2)}{2 \cdot C \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)} = 0$$

$$R - \frac{\sqrt{(X \cdot Z^2 \cdot p - X \cdot p \cdot q^2 + 2 \cdot X \cdot Z \cdot p \cdot q - 2 \cdot Y \cdot Z \cdot o \cdot q) \cdot (X \cdot Z^2 \cdot p + 3 \cdot X \cdot p \cdot q^2 - 2 \cdot X \cdot Z \cdot p \cdot q + 2 \cdot Y \cdot Z \cdot o \cdot q)} + X \cdot p \cdot (Z^2 + q^2)}{2 \cdot q \cdot (Y \cdot Z \cdot o - X \cdot Z \cdot p + X \cdot p \cdot q)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.89582$ $N_2 := 1.76022$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

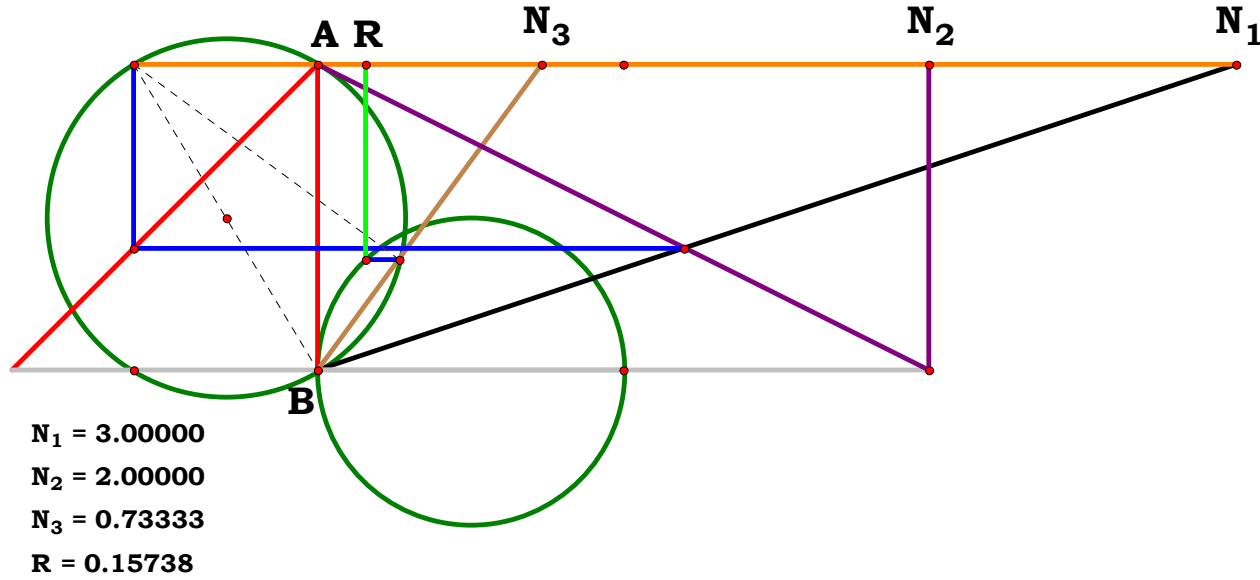
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO - GO \quad R = 0.145693$$



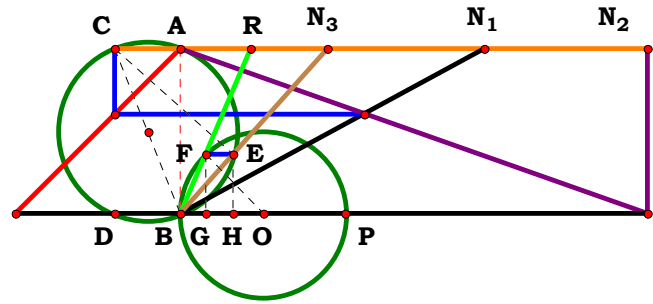
$$\frac{(N_1 + N_2) \cdot (N_3^2 + 1) - \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_1 \cdot N_3))}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} \cdot R = 0.00000$$

Definitions.

$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) - \sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{(C^2 + N_u^2) \cdot (A + B) - \sqrt{(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u)}}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) - \sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0$$



$N_1 = 1.83771$
 $N_2 = 2.82566$
 $N_3 = 0.89323$
 $R = 0.42577$

Unit. $AB := 1$ Given. $N_1 := 1.83771$ $N_2 := 2.82566$ $N_3 := .89323$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

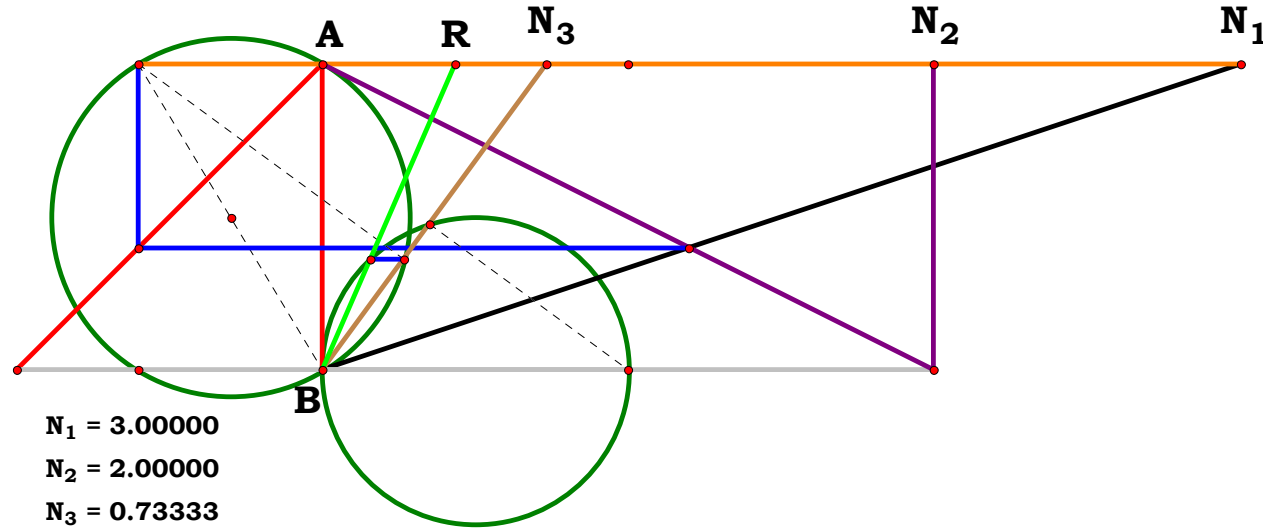
$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$BG := FO - GO \quad R := \frac{BG}{EH}$$

$$R = 0.425767$$



$N_1 = 3.00000$
 $N_2 = 2.00000$
 $N_3 = 0.73333$
 $R = 0.43218$

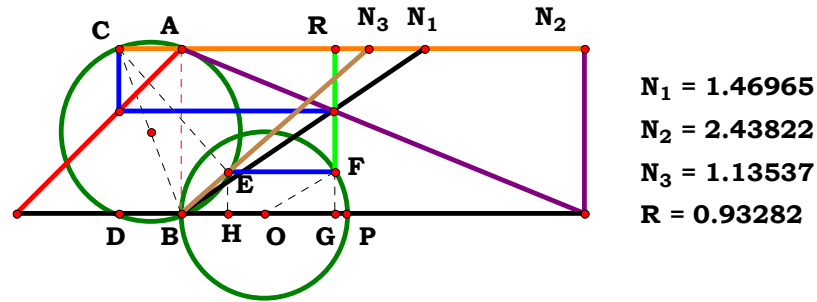
$$\frac{\sqrt{((N_1 \cdot N_3^2 - N_2 - N_1) + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_1 \cdot N_3) - (N_3^2 + 1) \cdot (N_1 + N_2)}}{2 \cdot (N_1 \cdot N_3 - N_2 - N_1)} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3) - (N_3^2 + 1) \cdot (N_1 + N_2)}}{2 \cdot (N_1 \cdot N_3 - N_2 - N_1)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{(C^2 + N_u^2) \cdot (A + B) - \sqrt{(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u)}}{2 \cdot C \cdot (A \cdot C + B \cdot C - B \cdot N_u)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Z^4 \cdot (X \cdot p + Y \cdot o)^2 + 2 \cdot Z^2 \cdot q^2 \cdot (2 \cdot X \cdot Y \cdot o \cdot p - X^2 \cdot p^2 + Y^2 \cdot o^2) + 8 \cdot Z \cdot X \cdot p \cdot q^3 \cdot (X \cdot p + Y \cdot o) - 3 \cdot q^4 \cdot (X \cdot p + Y \cdot o)^2 - (Z^2 + q^2) \cdot (X \cdot p + Y \cdot o)}}{2 \cdot q \cdot (X \cdot Z \cdot p - X \cdot p \cdot q - Y \cdot o \cdot q)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.43822$ $N_3 := 1.13537$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

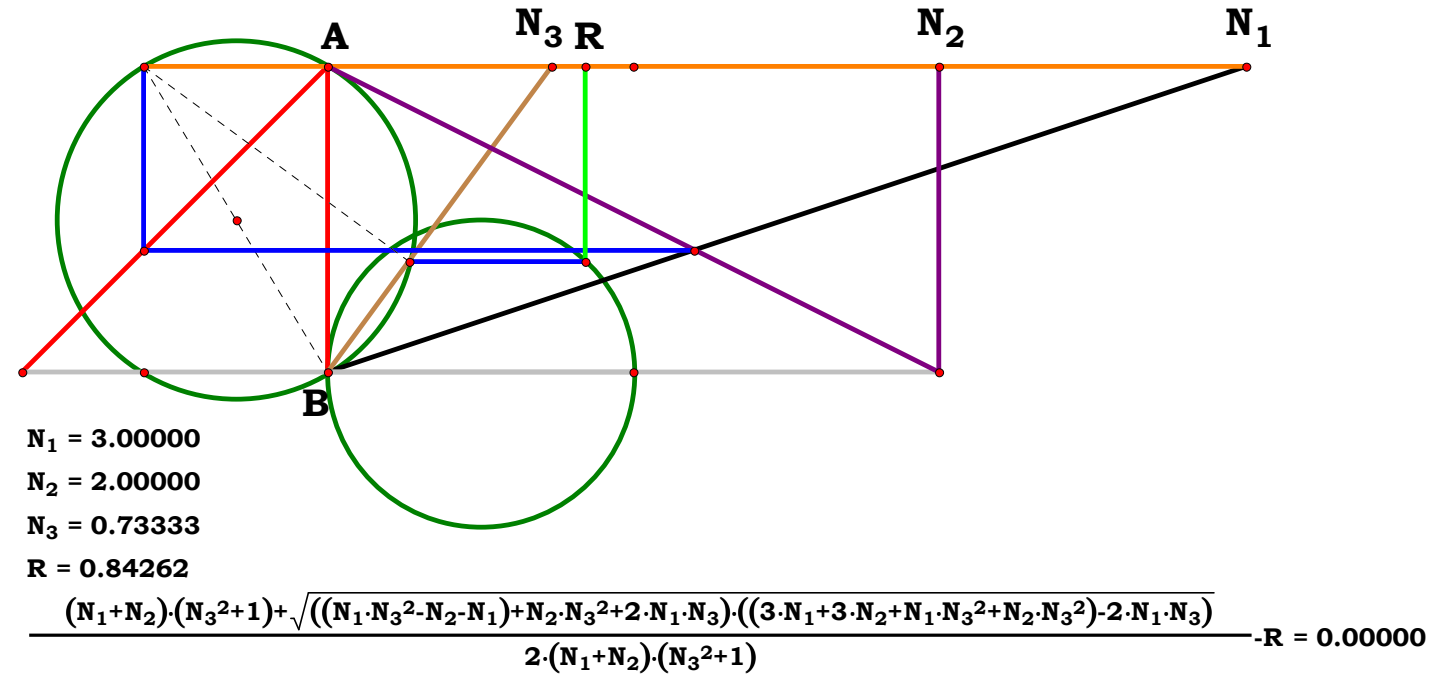
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO + GO \quad R = 0.932823$$



$$N_1 = 3.00000$$

$$N_2 = 2.00000$$

$$N_3 = 0.73333$$

$$R = 0.84262$$

$$\frac{(N_1 + N_2) \cdot (N_3^2 + 1) + \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3))}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

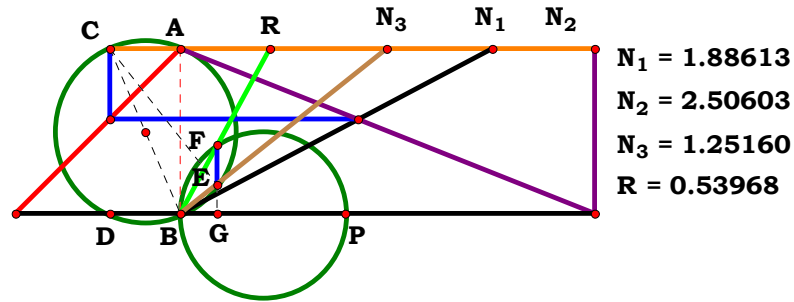
$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) + \sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3)}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u) \cdot (3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u)} + (C^2 + N_u^2) \cdot (A + B)}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot X \cdot Z \cdot p \cdot q) \cdot (X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + 3 \cdot X \cdot p \cdot q^2 + 3 \cdot Y \cdot o \cdot q^2 - 2 \cdot X \cdot Z \cdot p \cdot q)} + (Z^2 + q^2) \cdot (X \cdot p + Y \cdot o)}{2 \cdot (X \cdot p + Y \cdot o) \cdot (Z^2 + q^2)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.88613$ $N_2 := 2.50603$ $N_3 := 1.25160$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

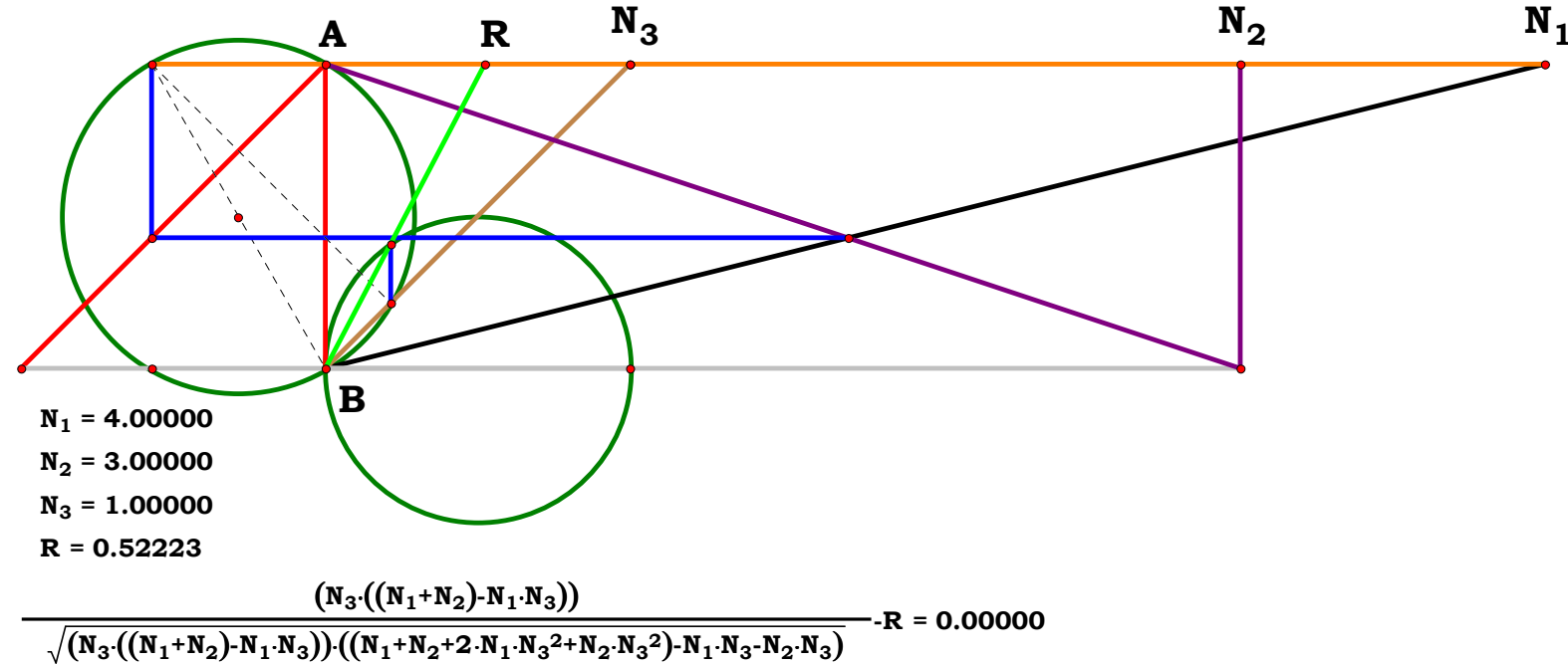
$$AC := \frac{N_1}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad BG := \frac{N_3 \cdot BE}{BN_3}$$

$$BP := AB \quad FG := \sqrt{BG \cdot (BP - BG)}$$

$$R := \frac{BG}{FG} \quad R = 0.539678$$



Definitions.

$$R - \frac{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3)}{\sqrt{N_3 \cdot (N_1 + N_2 - N_1 \cdot N_3) \cdot (N_1 + N_2 + 2 \cdot N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - N_1 \cdot N_3 - N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + A \cdot N_u^2 + 2 \cdot B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p \cdot q - X \cdot Z \cdot p + Y \cdot o \cdot q)}{\sqrt{Z \cdot (X \cdot p \cdot q - X \cdot Z \cdot p + Y \cdot o \cdot q) \cdot [2 \cdot X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + X \cdot p \cdot q^2 + Y \cdot o \cdot q^2 - Z \cdot q \cdot (X \cdot p + Y \cdot o)]}} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \qquad BN_3 := \sqrt{AB^2 + N_3^2}$$

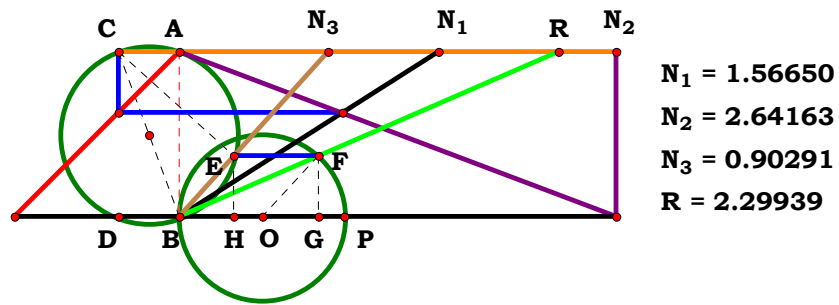
$$CN_3 := AC + N_3 \qquad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \qquad FG := \frac{BE}{BN_3}$$

$$BP := AB \qquad OF := \frac{BP}{2}$$

$$GO := \sqrt{OF^2 - FG^2} \qquad BG := OF + GO$$

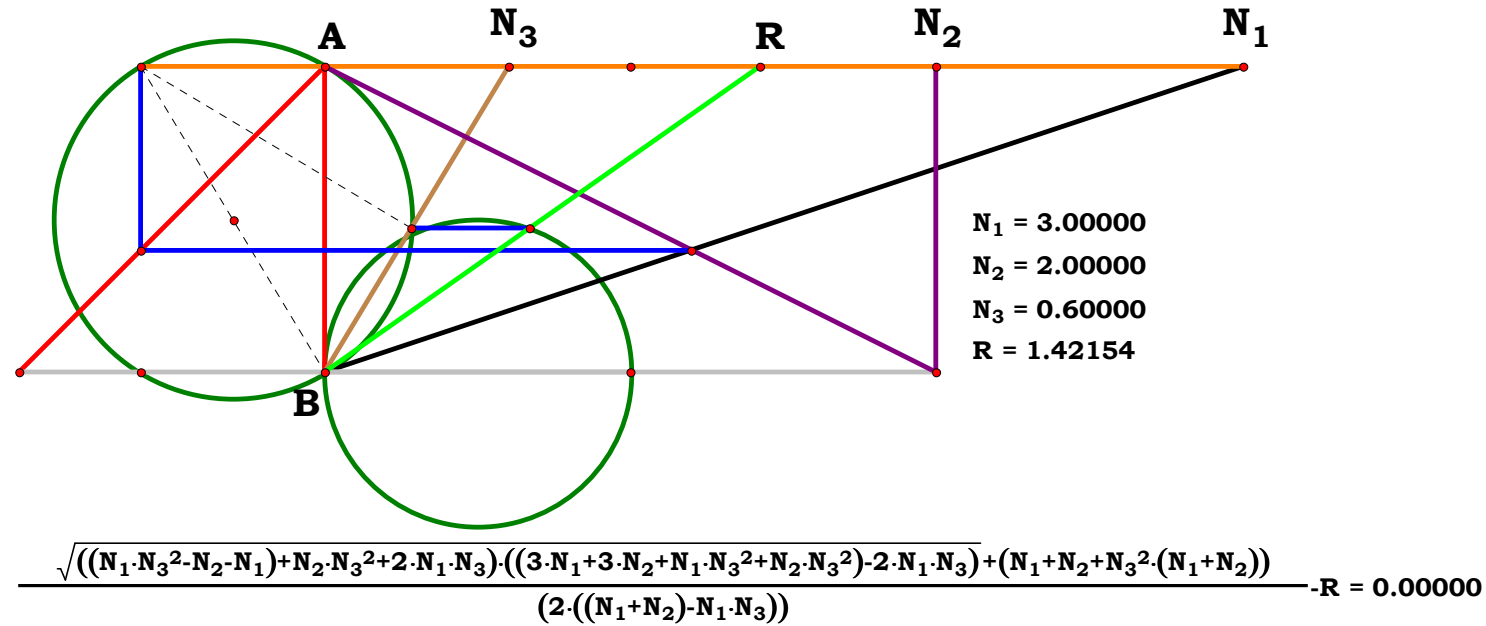
$$R := \frac{BG}{FG} \qquad R = 2.29937$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.56650 \quad N_2 := 2.64163 \quad N_3 := .90291$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

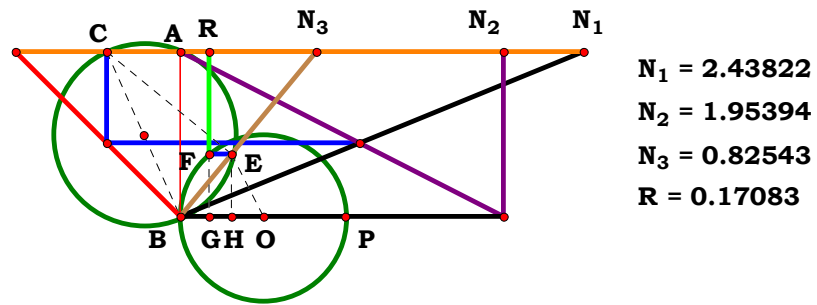


Definitions.

$$R - \frac{\sqrt{\left(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3\right) \cdot \left(3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3\right) + N_1 + N_2 + N_3^2 \cdot \left(N_1 + N_2\right)}}{2 \cdot \left(N_1 + N_2 - N_1 \cdot N_3\right)} = 0 \qquad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}}{2 \cdot C \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)} = 0 \qquad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{\left(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot X \cdot Z \cdot p \cdot q\right) \cdot \left(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + 3 \cdot X \cdot p \cdot q^2 + 3 \cdot Y \cdot o \cdot q^2 - 2 \cdot X \cdot Z \cdot p \cdot q\right) + \left(Z^2 + q^2\right) \cdot (X \cdot p + Y \cdot o)}}{2 \cdot q \cdot (X \cdot p \cdot q - X \cdot Z \cdot p + Y \cdot o \cdot q)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.43822$ $N_2 := 1.95394$ $N_3 := .82543$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

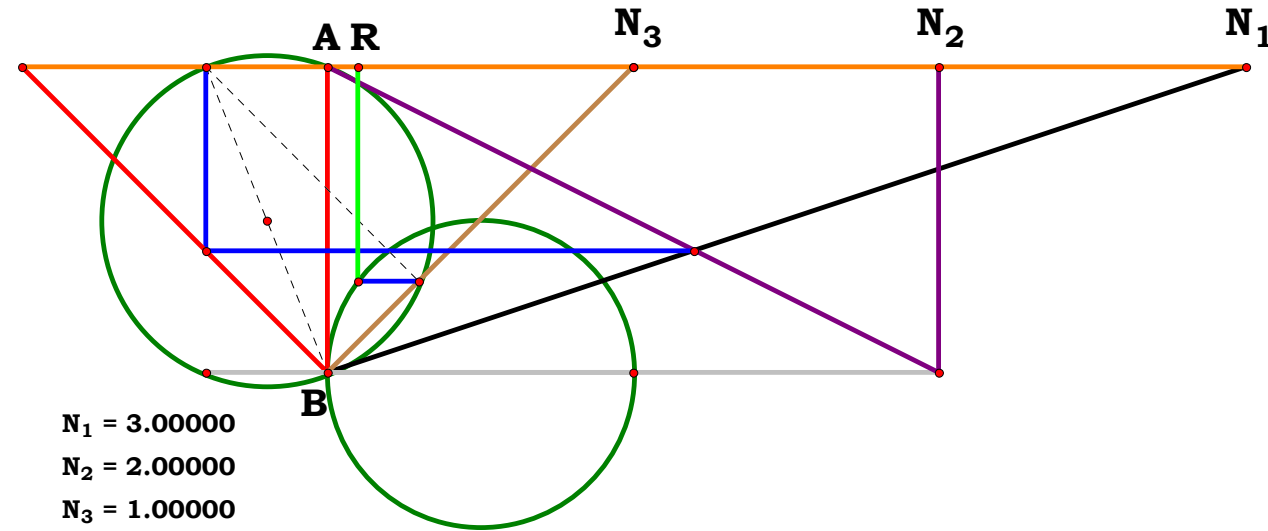
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO - GO \quad R = 0.170832$$



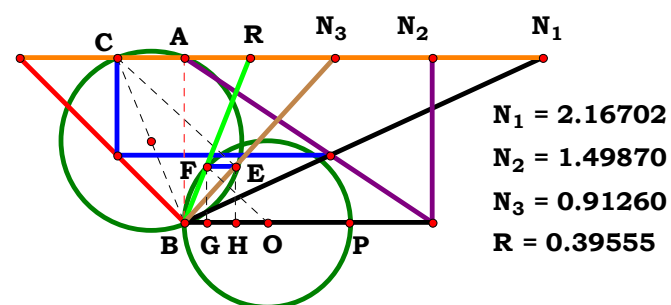
$$\frac{(N_1 + N_2) \cdot (N_3^2 + 1) - \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1) + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) - \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1) + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{(C^2 + N_u^2) \cdot (A + B) - \sqrt{(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u) \cdot (3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u)}}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(Z^2 + q^2) \cdot (X \cdot p + Y \cdot o) - \sqrt{(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot Y \cdot Z \cdot o \cdot q) \cdot (X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + 3 \cdot X \cdot p \cdot q^2 + 3 \cdot Y \cdot o \cdot q^2 - 2 \cdot Y \cdot Z \cdot o \cdot q)}}{2 \cdot (X \cdot p + Y \cdot o) \cdot (Z^2 + q^2)} = 0$$



Unit. AB := 1 Given. $N_1 := 2.16702$ $N_2 := 1.49870$ $N_3 := .91260$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{BN}_3 := \sqrt{\mathbf{AB}^2 + \mathbf{N}_3^2}$$

$$\mathbf{CN}_3 := \mathbf{AC} + \mathbf{N}_3 \quad \mathbf{EN}_3 := \frac{\mathbf{N}_3 \cdot \mathbf{CN}_3}{\mathbf{BN}_3}$$

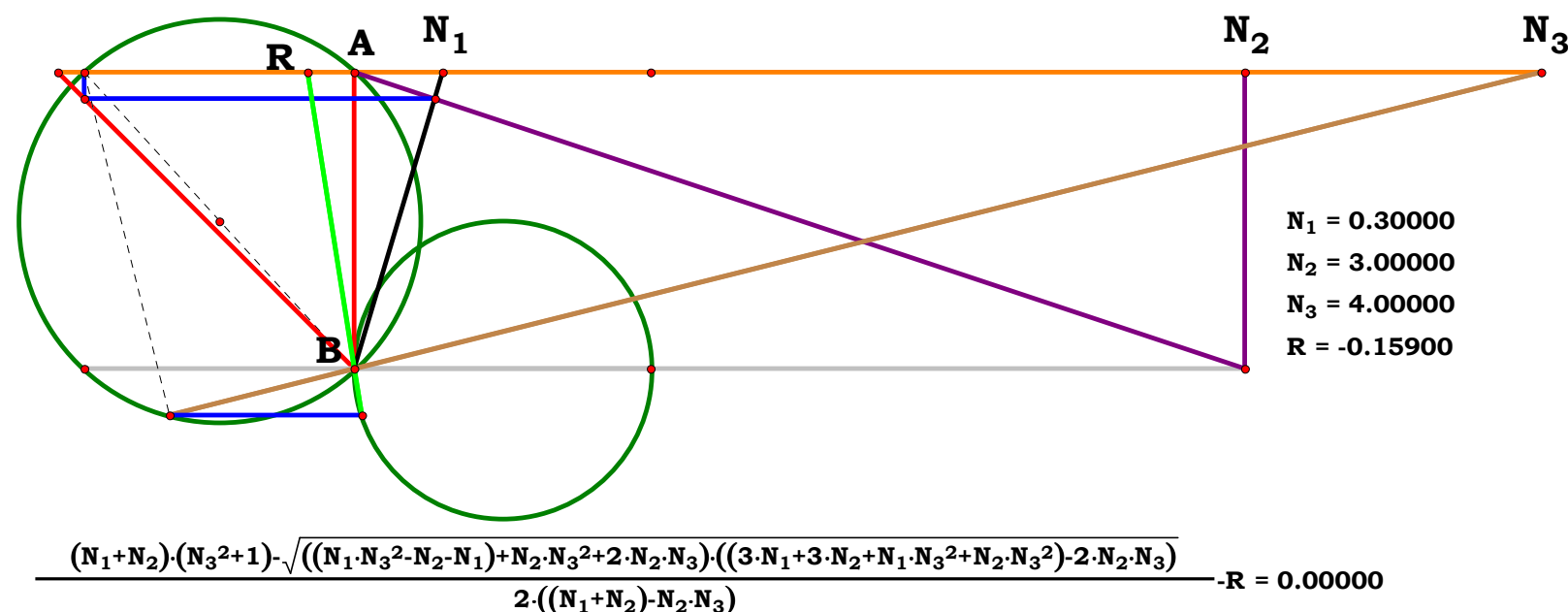
$$\mathbf{BE} := \mathbf{BN}_3 - \mathbf{EN}_3 \quad \mathbf{EH} := \frac{\mathbf{BE}}{\mathbf{BN}_3}$$

FG := EH BP := AB

$$\mathbf{FO} := \frac{\mathbf{BP}}{2} \quad \mathbf{GO} := \sqrt{\mathbf{FO}^2 - \mathbf{FG}^2}$$

$$\mathbf{BG} := \mathbf{FO} - \mathbf{GO} \quad \mathbf{R} := \frac{\mathbf{BG}}{\mathbf{EH}}$$

R = 0.395546



$$\frac{(N_1+N_2) \cdot (N_3^2+1) - \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1) + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_2 \cdot N_3)}}{2 \cdot ((N_1+N_2) \cdot N_2 \cdot N_3)} - R = 0.00000$$

Definitions.

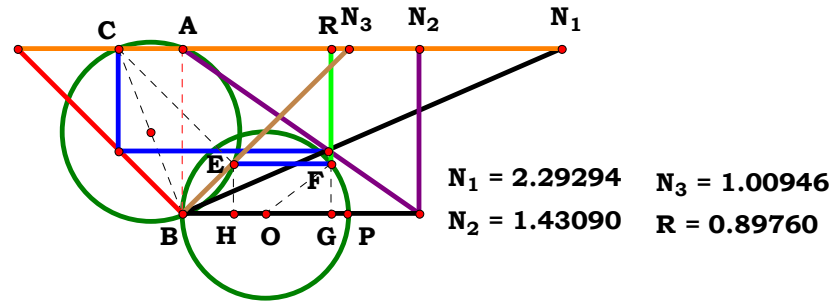
$$\mathbf{R} - \frac{\left(\mathbf{N}_3^2 + 1\right) \cdot \left(\mathbf{N}_1 + \mathbf{N}_2\right) - \sqrt{\left(\mathbf{N}_1 \cdot \mathbf{N}_3^2 - \mathbf{N}_2 - \mathbf{N}_1 + \mathbf{N}_2 \cdot \mathbf{N}_3^2 + 2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3\right) \cdot \left(3 \cdot \mathbf{N}_1 + 3 \cdot \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3^2 + \mathbf{N}_2 \cdot \mathbf{N}_3^2 - 2 \cdot \mathbf{N}_2 \cdot \mathbf{N}_3\right)}}{2 \cdot \left(\mathbf{N}_1 + \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3\right)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$\mathbf{R} - \frac{\left(\mathbf{C}^2 + \mathbf{N}_u^2\right) \cdot (\mathbf{A} + \mathbf{B}) - \sqrt{\left(\mathbf{A} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C}^2 - \mathbf{A} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_u^2 + 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_u\right) \cdot \left(3 \cdot \mathbf{A} \cdot \mathbf{C}^2 + 3 \cdot \mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_u^2 + \mathbf{B} \cdot \mathbf{N}_u^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_u\right)}}{2 \cdot \mathbf{C} \cdot \left(\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_u\right)} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = \mathbf{0} \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = \mathbf{0} \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = \mathbf{0}$$

$$\mathbf{R} - \frac{(\mathbf{Z}^2 + \mathbf{q}^2) \cdot (\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}) - \sqrt{(\mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 + 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}) \cdot (\mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} + 3 \cdot \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 + 3 \cdot \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 - 2 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q})}}{2 \cdot \mathbf{q} \cdot (\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q} - \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q})} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.29294$ $N_2 := 1.43090$ $N_3 := 1.00946$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

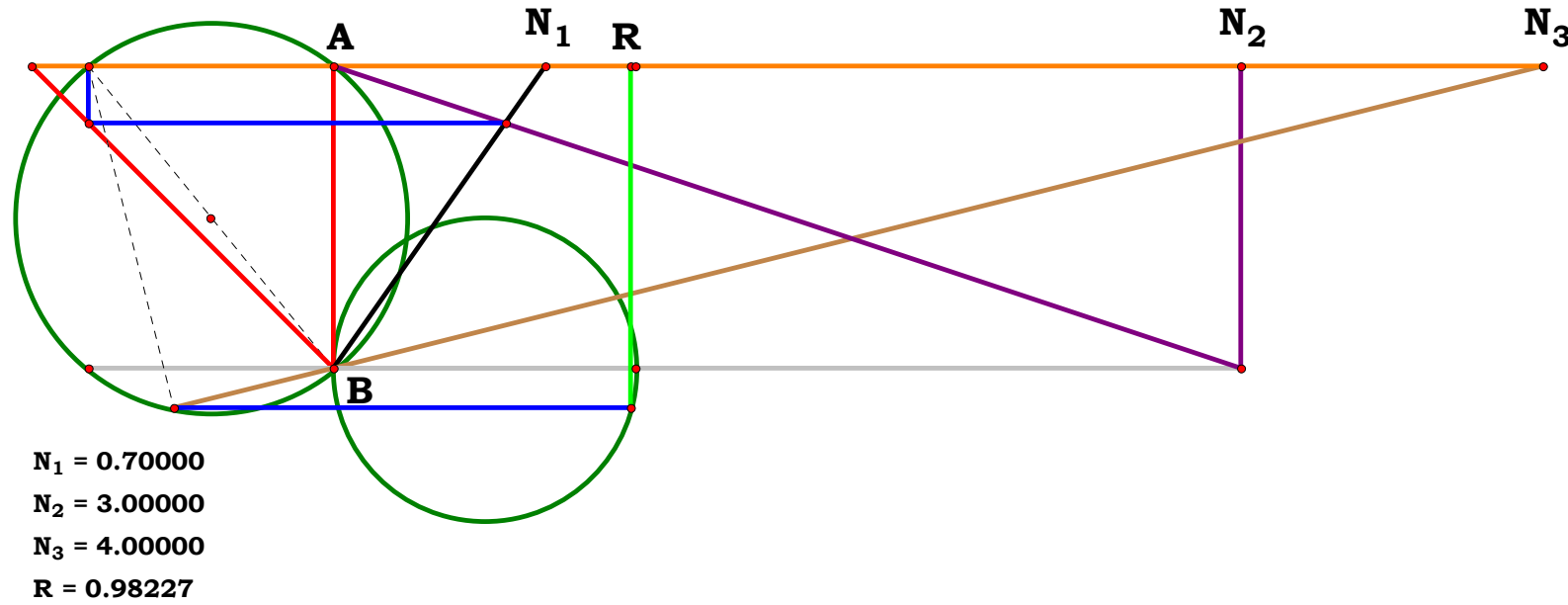
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO + GO \quad R = 0.8976$$



$N_1 = 0.70000$
 $N_2 = 3.00000$
 $N_3 = 4.00000$
 $R = 0.98227$

$$\frac{(N_1 + N_2) \cdot (N_3^2 + 1) + \sqrt{((N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot ((3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - 2 \cdot N_2 \cdot N_3))}}{2 \cdot (N_1 + N_2) \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) + \sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u) \cdot (3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u)} + (C^2 + N_u^2) \cdot (A + B)}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{(N_1 + N_2) \cdot (N_3^2 + 1) + \sqrt{(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3) \cdot (3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_2 \cdot N_3)}}{2 \cdot (N_3^2 + 1) \cdot (N_1 + N_2)} = 0$$



Descriptions.

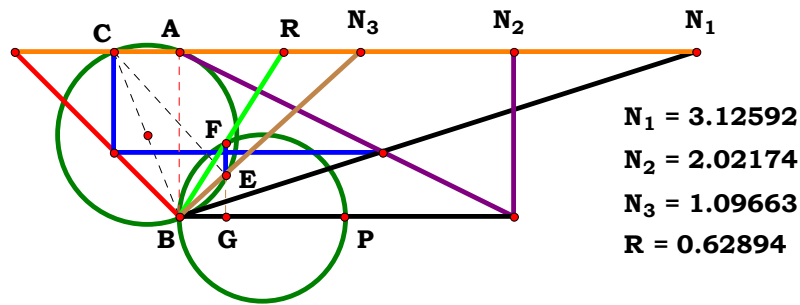
$$AC := \frac{N_2}{N_1 + N_2} \qquad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \qquad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \qquad BG := \frac{N_3 \cdot BE}{BN_3}$$

$$BP := AB \qquad FG := \sqrt{BG \cdot (BP - BG)}$$

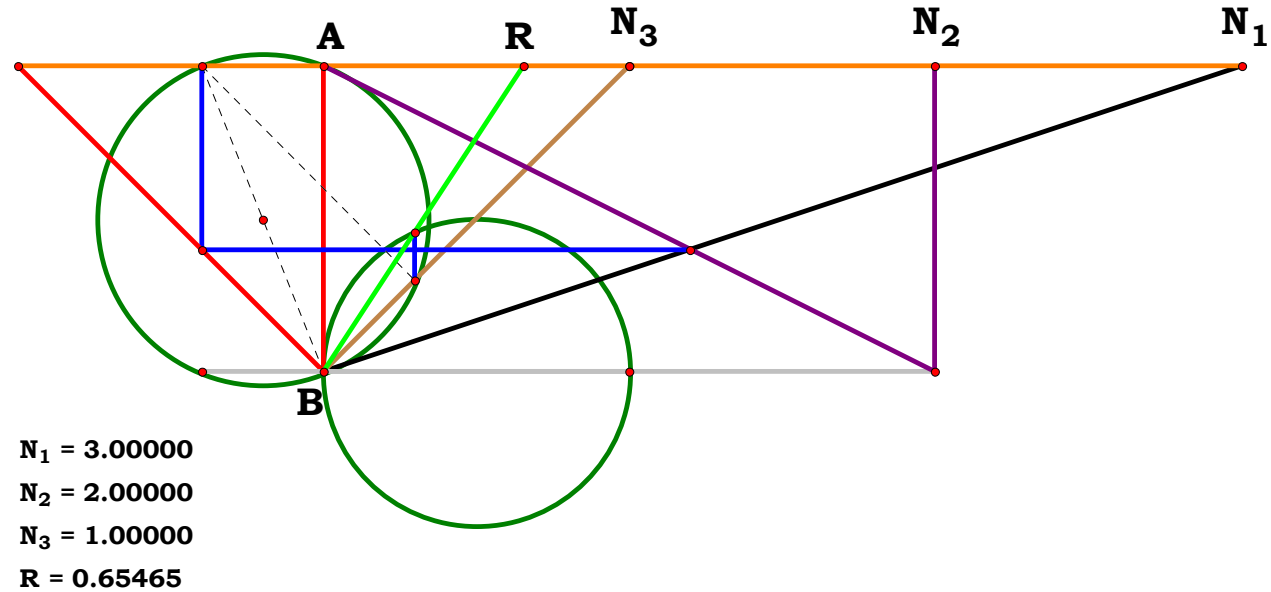
$$R := \frac{BG}{FG} \qquad R = 0.628937$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 3.12592 \quad N_2 := 2.02174 \quad N_3 := 1.09663$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\frac{(N_3 \cdot ((N_1 + N_2) - N_2 \cdot N_3))}{\sqrt{(N_3 \cdot ((N_1 + N_2) - N_2 \cdot N_3)) \cdot ((N_1 + N_2 + N_1 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3^2) - N_1 \cdot N_3 - N_2 \cdot N_3)}} \cdot R = 0.00000$$

Definitions.

$$R - \frac{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3)}{\sqrt{N_3 \cdot (N_1 + N_2 - N_2 \cdot N_3) \cdot (N_1 + N_2 + N_1 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3^2 - N_1 \cdot N_3 - N_2 \cdot N_3)}} = 0 \qquad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + 2 \cdot A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}} = 0 \qquad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (X \cdot p \cdot q - Y \cdot Z \cdot o + Y \cdot o \cdot q)}{\sqrt{Z \cdot (X \cdot p \cdot q - Y \cdot Z \cdot o + Y \cdot o \cdot q) \cdot (X \cdot Z^2 \cdot p + 2 \cdot Y \cdot Z^2 \cdot o + X \cdot p \cdot q^2 + Y \cdot o \cdot q^2 - X \cdot Z \cdot p \cdot q - Y \cdot Z \cdot o \cdot q)}} = 0$$



Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

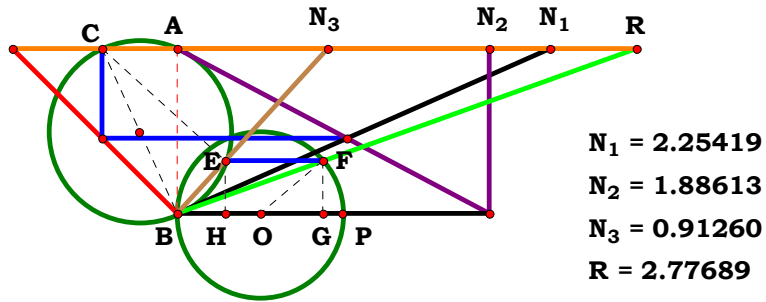
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad FG := \frac{BE}{BN_3}$$

$$BP := AB \quad OF := \frac{BP}{2} \quad GO := \sqrt{OF^2 - FG^2}$$

$$BG := OF + GO \quad R := \frac{BG}{FG}$$

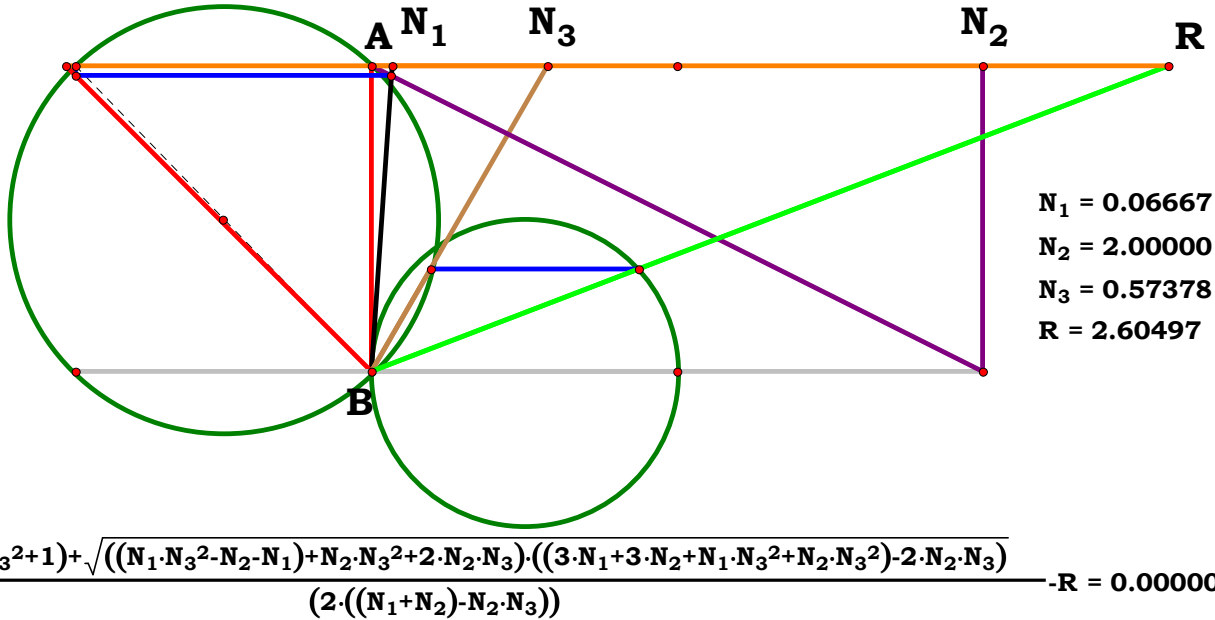
$$R = 2.776892$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.25419 \quad N_2 := 1.88613 \quad N_3 := .91260$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

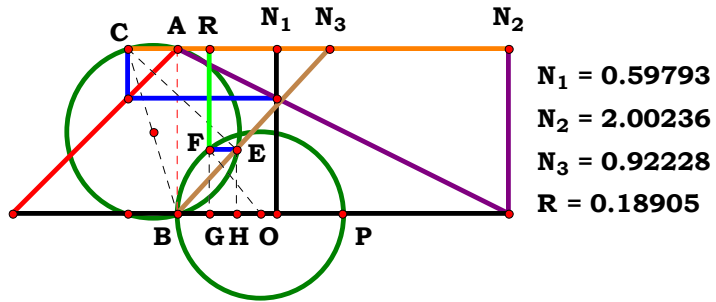


Definitions.

$$R - \frac{\sqrt{\left(N_1 \cdot N_3^2 - N_2 - N_1 + N_2 \cdot N_3^2 + 2 \cdot N_2 \cdot N_3\right) \cdot \left(3 \cdot N_1 + 3 \cdot N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - 2 \cdot N_2 \cdot N_3\right)} + \left(N_3^2 + 1\right) \cdot \left(N_1 + N_2\right)}{2 \cdot \left(N_1 + N_2 - N_2 \cdot N_3\right)} = 0 \qquad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)}{2 \cdot C \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)} = 0 \qquad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{\left(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot Y \cdot Z \cdot o \cdot q\right) \cdot \left(X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + 3 \cdot X \cdot p \cdot q^2 + 3 \cdot Y \cdot o \cdot q^2 - 2 \cdot Y \cdot Z \cdot o \cdot q\right)} + \left(Z^2 + q^2\right) \cdot (X \cdot p + Y \cdot o)}{2 \cdot q \cdot (X \cdot p \cdot q - Y \cdot Z \cdot o + Y \cdot o \cdot q)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .59793$ $N_2 := 2.00236$ $N_3 := .92228$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$X := 20$ $Y := 19$ $Z := 18$ $o := \frac{X}{N_1}$ $p := \frac{Y}{N_2}$ $q := \frac{Z}{N_3}$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

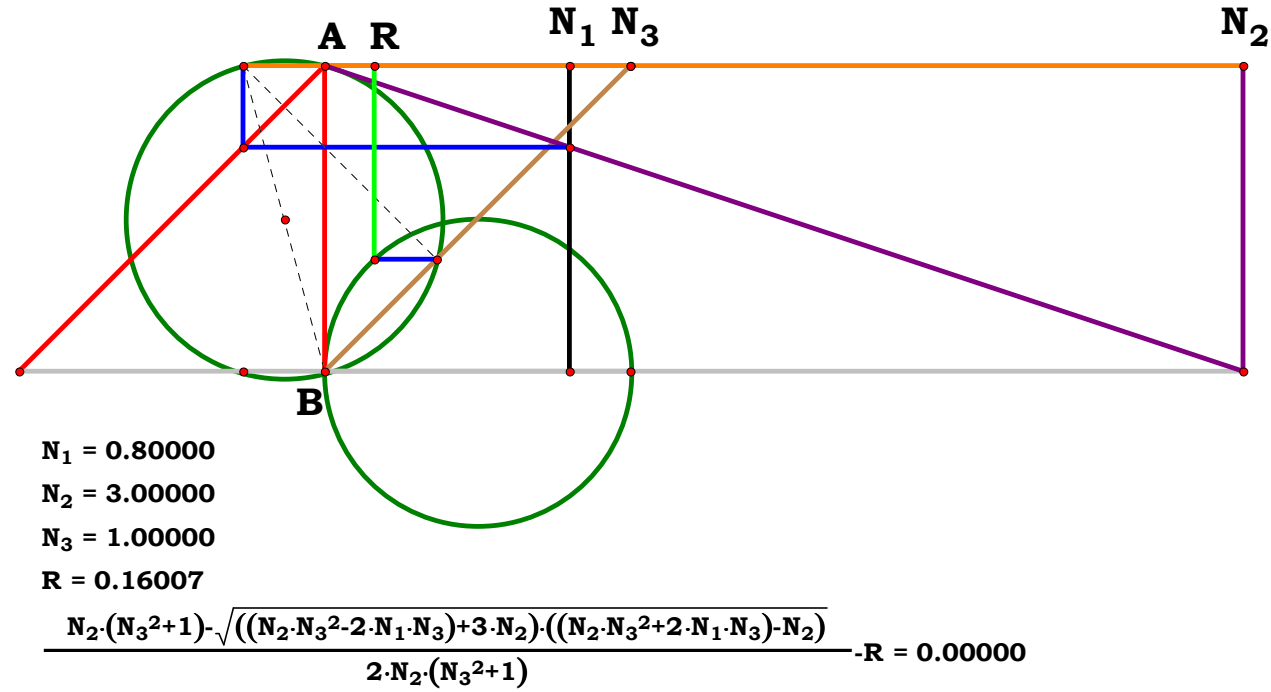
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO - GO \quad R = 0.189047$$



$N_1 = 0.80000$
 $N_2 = 3.00000$
 $N_3 = 1.00000$
 $R = 0.16007$

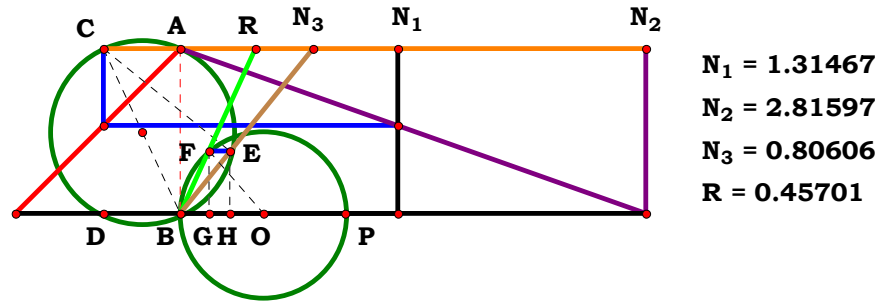
$$\frac{N_2 \cdot (N_3^2 + 1) - \sqrt{((N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2) \cdot ((N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3) - N_2))}}{2 \cdot N_2 \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

$$R - \frac{N_2 \cdot (N_3^2 + 1) - \sqrt{(N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2) \cdot (N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2)}}{2 \cdot N_2 \cdot (N_3^2 + 1)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot (C^2 + N_u^2) - \sqrt{(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2) \cdot (A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2)}}{2 \cdot (C^2 + N_u^2) \cdot A} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Y \cdot o \cdot (Z^2 + q^2) - \sqrt{(Y \cdot o \cdot Z^2 + 2 \cdot X \cdot p \cdot Z \cdot q - Y \cdot o \cdot q^2) \cdot (Y \cdot o \cdot Z^2 - 2 \cdot X \cdot p \cdot Z \cdot q + 3 \cdot Y \cdot o \cdot q^2)}}{2 \cdot Y \cdot (Z^2 + q^2) \cdot o} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.31467$ $N_2 := 2.81597$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

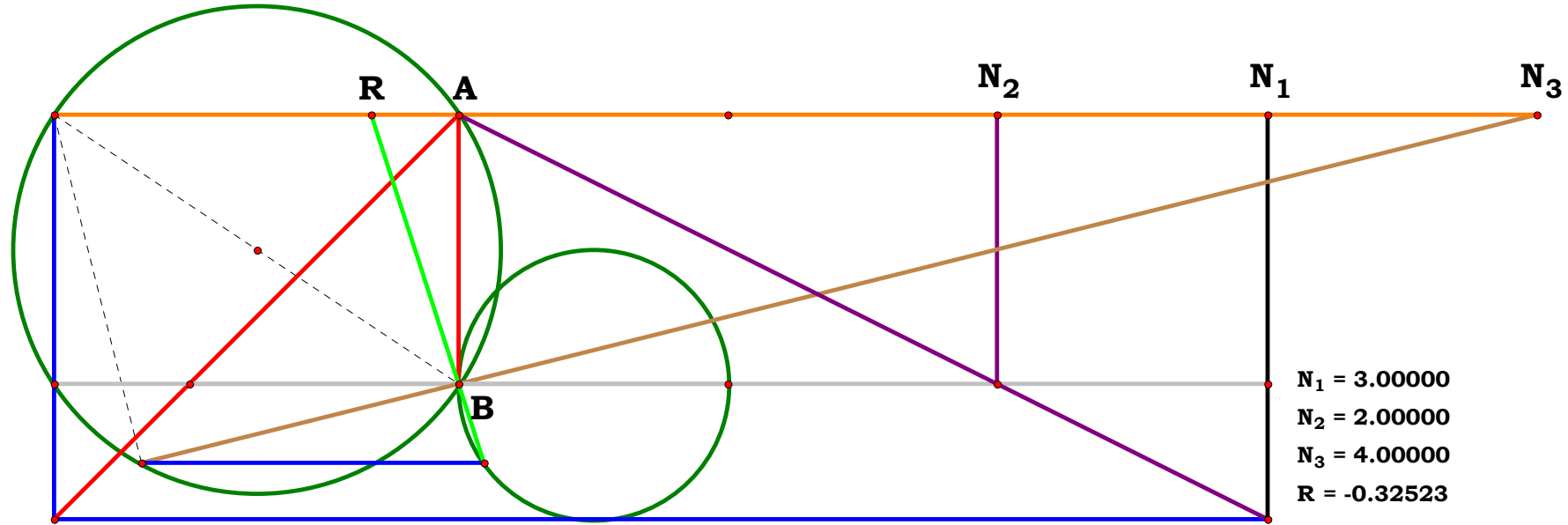
$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$BG := FO - GO \quad R := \frac{BG}{EH}$$

$$R = 0.457008$$



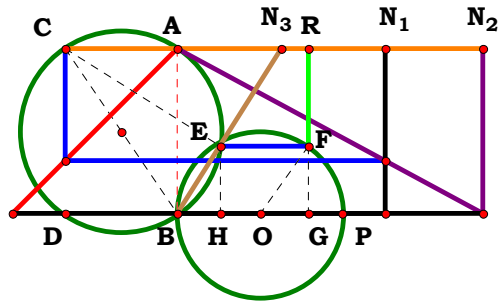
$$\frac{\sqrt{((N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3) + 3 \cdot N_2) \cdot ((N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2) - N_2 \cdot (N_3^2 + 1))}}{(2 \cdot (N_1 \cdot N_3 - N_2))} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{(N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2) \cdot (N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2) - N_2 \cdot (N_3^2 + 1)}}{2 \cdot (N_1 \cdot N_3 - N_2)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{A \cdot (C^2 + N_u^2) - \sqrt{(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2) \cdot (A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2)}}{2 \cdot C \cdot (A \cdot C - B \cdot N_u)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(Y \cdot o \cdot Z^2 + 2 \cdot X \cdot p \cdot Z \cdot q - Y \cdot o \cdot q^2) \cdot (Y \cdot o \cdot Z^2 - 2 \cdot X \cdot p \cdot Z \cdot q + 3 \cdot Y \cdot o \cdot q^2) - Y \cdot o \cdot (Z^2 + q^2)}}{2 \cdot q \cdot (X \cdot Z \cdot p - Y \cdot o \cdot q)} = 0$$



$N_1 = 1.25656$
 $N_2 = 1.84739$
 $N_3 = 0.63171$
 $R = 0.78952$

Unit. $AB := 1$ Given. $N_1 := 1.25656$ $N_2 := 1.84739$ $N_3 := .63171$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

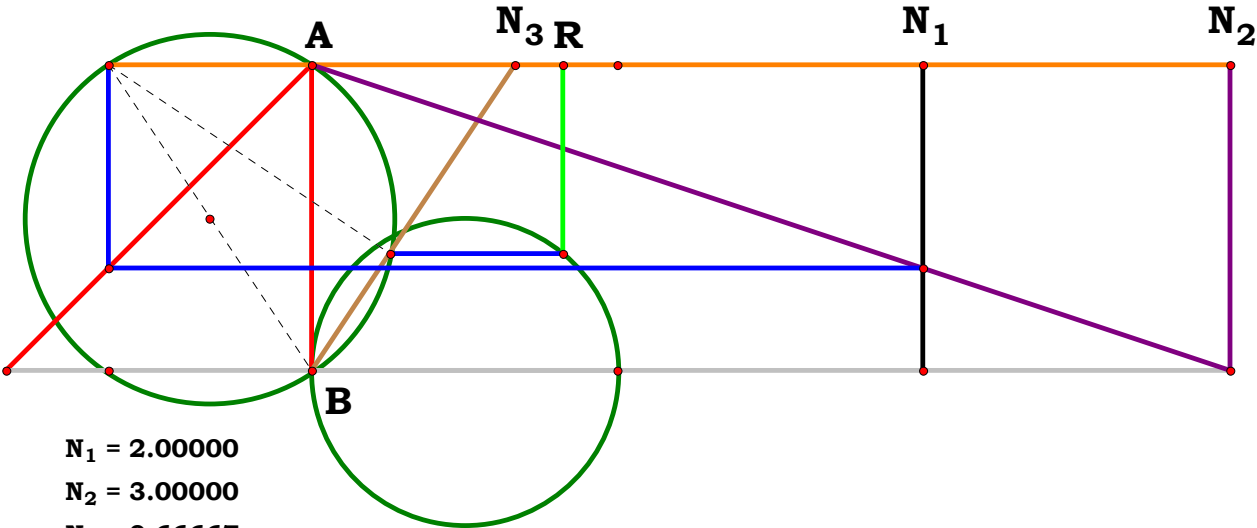
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad EH := \frac{BE}{BN_3}$$

$$FG := EH \quad BP := AB$$

$$FO := \frac{BP}{2} \quad GO := \sqrt{FO^2 - FG^2}$$

$$R := FO + GO \quad R = 0.789522$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.66667$
 $R = 0.81949$

$$\frac{N_2 \cdot (N_3^2 + 1) + \sqrt{((N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2) \cdot (N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2))}}{2 \cdot N_2 \cdot (N_3^2 + 1)} - R = 0.00000$$

Definitions.

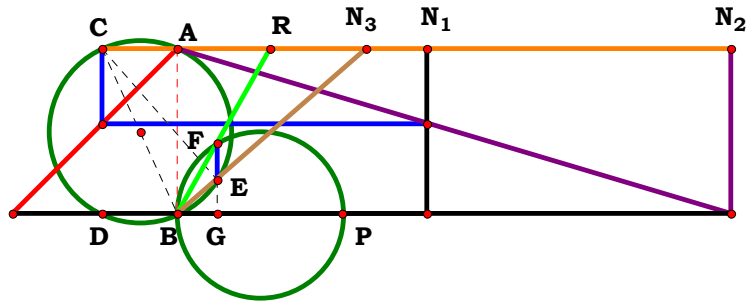
$$R - \frac{N_2 \cdot (N_3^2 + 1) + \sqrt{(N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2) \cdot (N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2)}}{2 \cdot N_2 \cdot (N_3^2 + 1)} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2) \cdot (3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2)} + A \cdot (C^2 + N_u^2)}{2 \cdot (C^2 + N_u^2) \cdot A} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(Y \cdot o \cdot Z^2 + 2 \cdot X \cdot p \cdot Z \cdot q - Y \cdot o \cdot q^2) \cdot (Y \cdot o \cdot Z^2 - 2 \cdot X \cdot p \cdot Z \cdot q + 3 \cdot Y \cdot o \cdot q^2)} + Y \cdot o \cdot (Z^2 + q^2)}{2 \cdot Y \cdot (Z^2 + q^2) \cdot o} = 0$$



$$\begin{aligned} N_1 &= 1.50839 \\ N_2 &= 3.34869 \\ N_3 &= 1.14506 \\ R &= 0.56180 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.50839 \quad N_2 := 3.34869 \quad N_3 := 1.14506$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

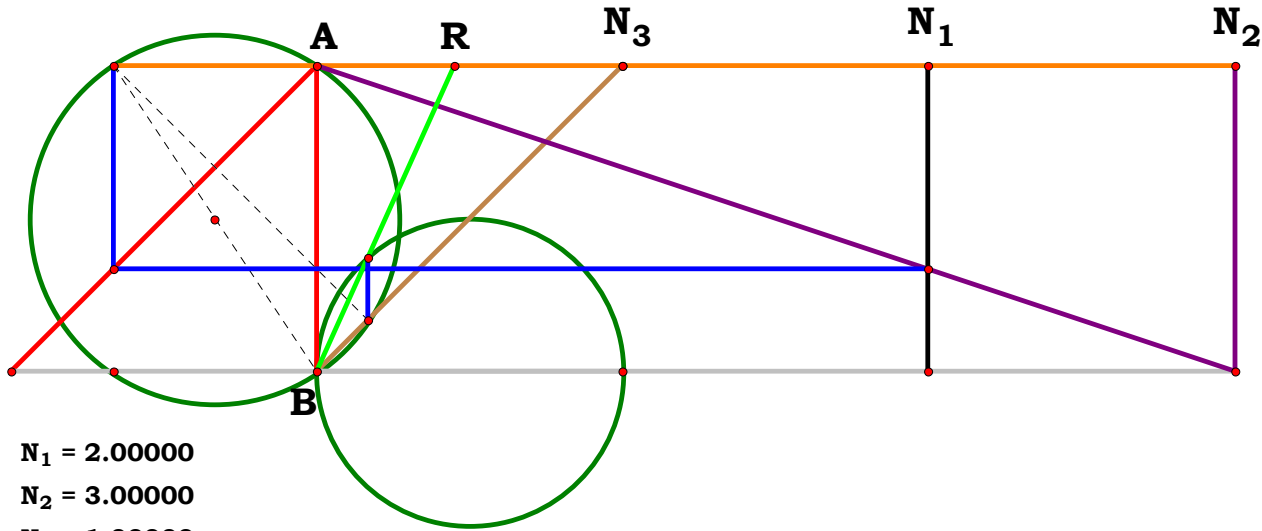
$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad BG := \frac{N_3 \cdot BE}{BN_3}$$

$$BP := AB \quad FG := \sqrt{BG \cdot (BP - BG)}$$

$$R := \frac{BG}{FG} \quad R = 0.561804$$



$$\begin{aligned} N_1 &= 2.00000 \\ N_2 &= 3.00000 \\ N_3 &= 1.00000 \\ R &= 0.44721 \end{aligned}$$

$$\frac{(N_3 \cdot (N_2 - N_1 \cdot N_3))}{\sqrt{(N_3 \cdot (N_2 - N_1 \cdot N_3)) \cdot ((N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2) - N_2 \cdot N_3)}} - R = 0.00000$$

Definitions.

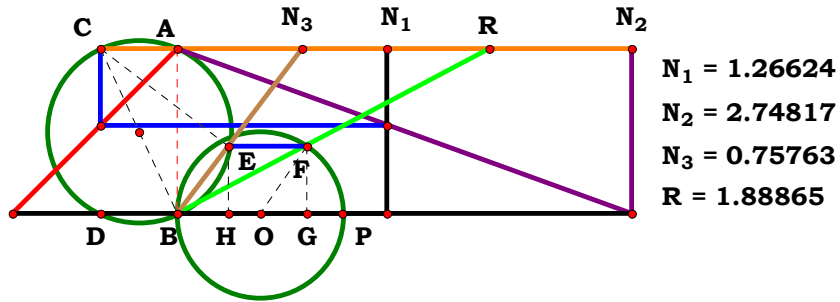
$$R - \frac{N_3 \cdot (N_2 - N_1 \cdot N_3)}{\sqrt{N_3 \cdot (N_2 - N_1 \cdot N_3) \cdot (N_2 + N_1 \cdot N_3^2 + N_2 \cdot N_3^2 - N_2 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{Z \cdot (Y \cdot o \cdot q - X \cdot Z \cdot p)}{\sqrt{Z \cdot (Y \cdot o \cdot q - X \cdot Z \cdot p) \cdot (X \cdot Z^2 \cdot p + Y \cdot Z^2 \cdot o + Y \cdot o \cdot q^2 - Y \cdot Z \cdot o \cdot q)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.26624$ $N_2 := 2.74817$ $N_3 := .75763$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BN_3 := \sqrt{AB^2 + N_3^2}$$

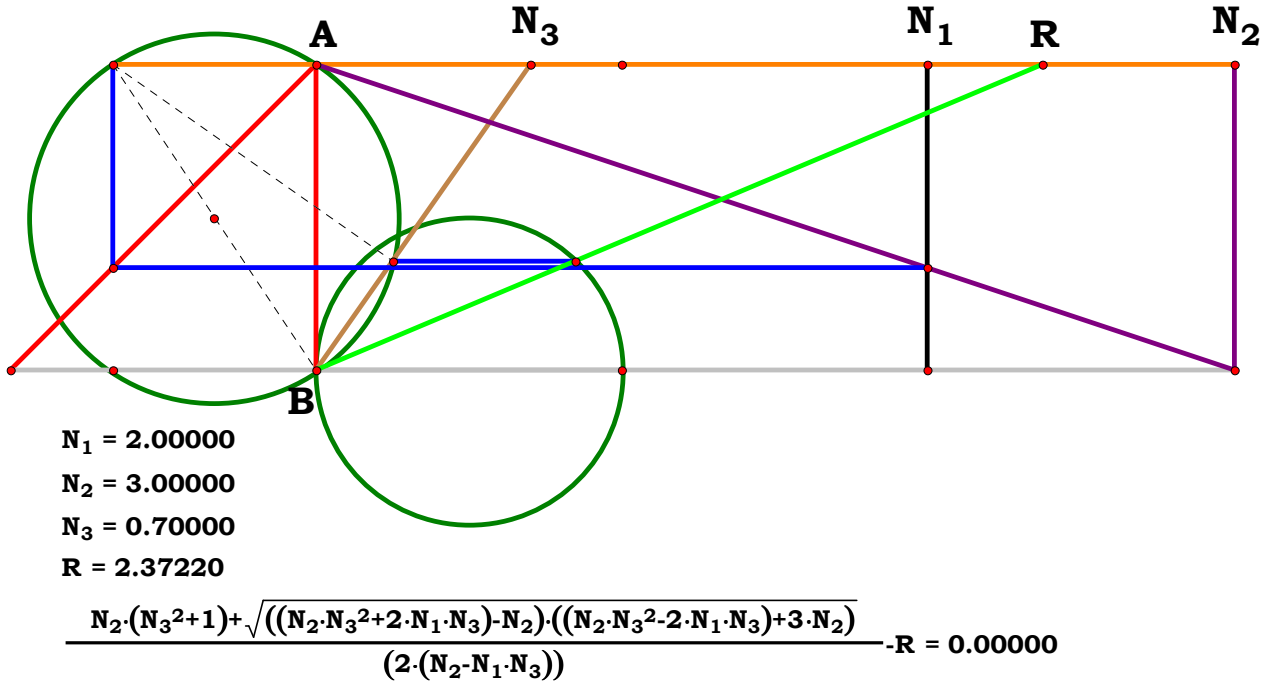
$$CN_3 := AC + N_3 \quad EN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

$$BE := BN_3 - EN_3 \quad FG := \frac{BE}{BN_3}$$

$$BP := AB \quad OF := \frac{BP}{2}$$

$$GO := \sqrt{OF^2 - FG^2} \quad BG := OF + GO$$

$$R := \frac{BG}{FG} \quad R = 1.888658$$

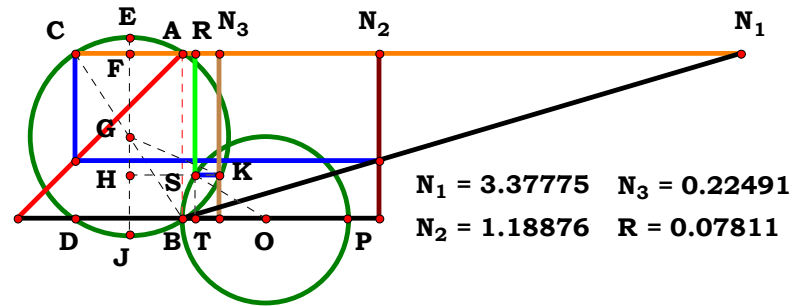


Definitions.

$$R - \frac{N_2 \cdot (N_3^2 + 1) + \sqrt{(N_2 \cdot N_3^2 + 2 \cdot N_1 \cdot N_3 - N_2) \cdot (N_2 \cdot N_3^2 - 2 \cdot N_1 \cdot N_3 + 3 \cdot N_2)}}{2 \cdot (N_2 - N_1 \cdot N_3)} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2) \cdot (3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2)} + A \cdot (C^2 + N_u^2)}{2 \cdot C \cdot (A \cdot C - B \cdot N_u)} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(Y \cdot o \cdot Z^2 + 2 \cdot X \cdot p \cdot Z \cdot q - Y \cdot o \cdot q^2) \cdot (Y \cdot o \cdot Z^2 - 2 \cdot X \cdot p \cdot Z \cdot q + 3 \cdot Y \cdot o \cdot q^2)} + Y \cdot o \cdot (Z^2 + q^2)}{2 \cdot q \cdot (Y \cdot o \cdot q - X \cdot Z \cdot p)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.37775$ $N_2 := 1.18876$ $N_3 := .22491$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

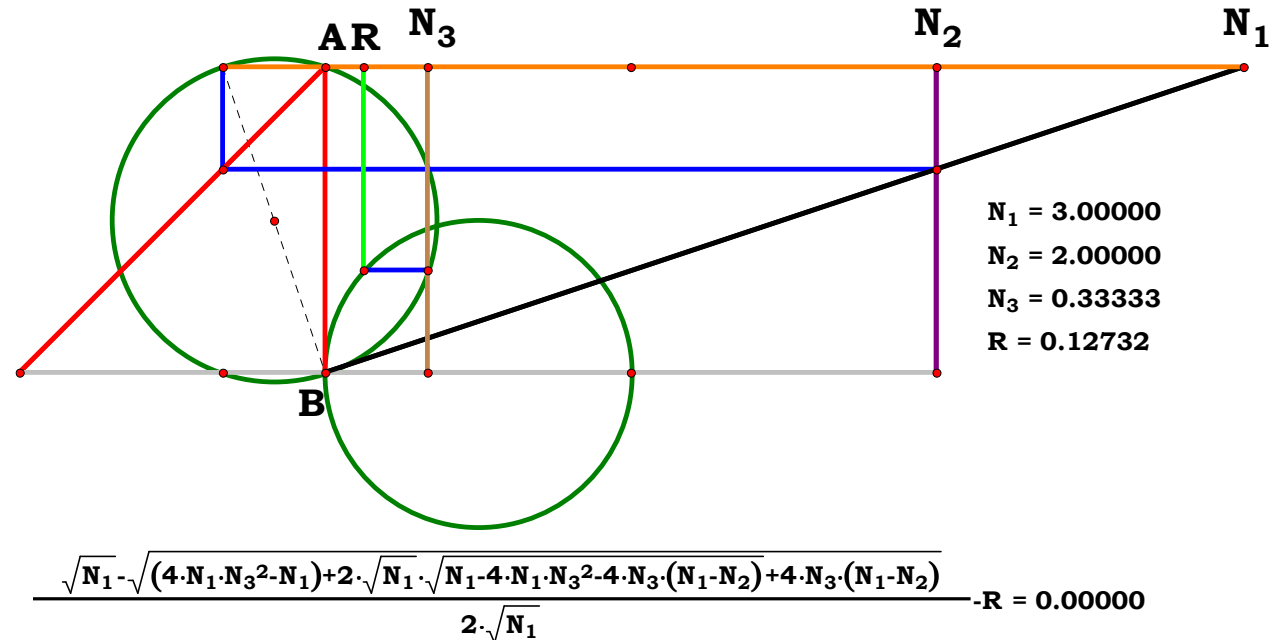
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2} \quad GK := \frac{EJ}{2}$$

$$HK := AF + N_3 \quad GH := \sqrt{GK^2 - HK^2}$$

$$ST := GK - (GH + EF) \quad BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad R := BO - OT$$

$$R = 0.078116$$



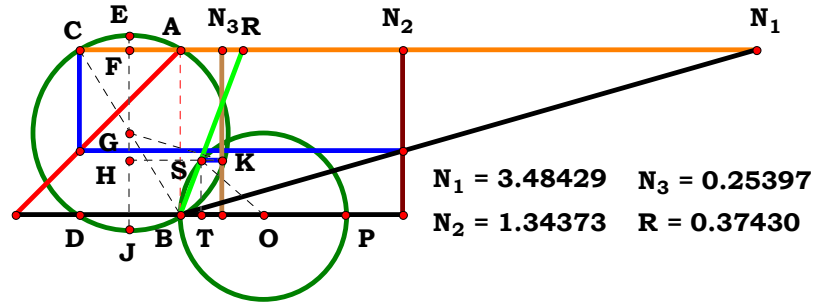
Definitions.

$$R - \frac{1 - \sqrt{4 \cdot N_3^2 + 4 \cdot AC \cdot N_3 + 2 \cdot \sqrt{-4 \cdot N_3^2 - 4 \cdot AC \cdot N_3 + 1 - 1}}}{2} = 0$$

$$R - \frac{\sqrt{N_1} - \sqrt{4 \cdot N_1 \cdot N_3^2 - N_1 + 2 \cdot \sqrt{N_1} \cdot \sqrt{N_1 - 4 \cdot N_1 \cdot N_3^2 - 4 \cdot N_3 \cdot (N_1 - N_2) + 4 \cdot N_3 \cdot (N_1 - N_2)}}}{2 \cdot \sqrt{N_1}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u} \cdot [2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot [B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot C \cdot N_u \cdot (A - B)] - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot [B \cdot (C^2 - 4 \cdot N_u^2) + 4 \cdot C \cdot N_u \cdot (A - B)]]}}}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{X} \cdot q \cdot (o \cdot p)^{\frac{3}{4}} - \sqrt{o} \cdot \sqrt{\sqrt{o \cdot p} \cdot (4 \cdot X \cdot Z^2 \cdot p - X \cdot p \cdot q^2 + 4 \cdot X \cdot Z \cdot p \cdot q - 4 \cdot Y \cdot Z \cdot o \cdot q) + 2 \cdot \sqrt{X} \cdot \sqrt{o \cdot p \cdot q} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Z \cdot (X \cdot Z \cdot p + X \cdot p \cdot q - Y \cdot o \cdot q)}}}{2 \cdot \sqrt{X} \cdot (o \cdot p)^{\frac{3}{4}} \cdot q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.48429$ $N_2 := 1.34373$ $N_3 := .25397$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

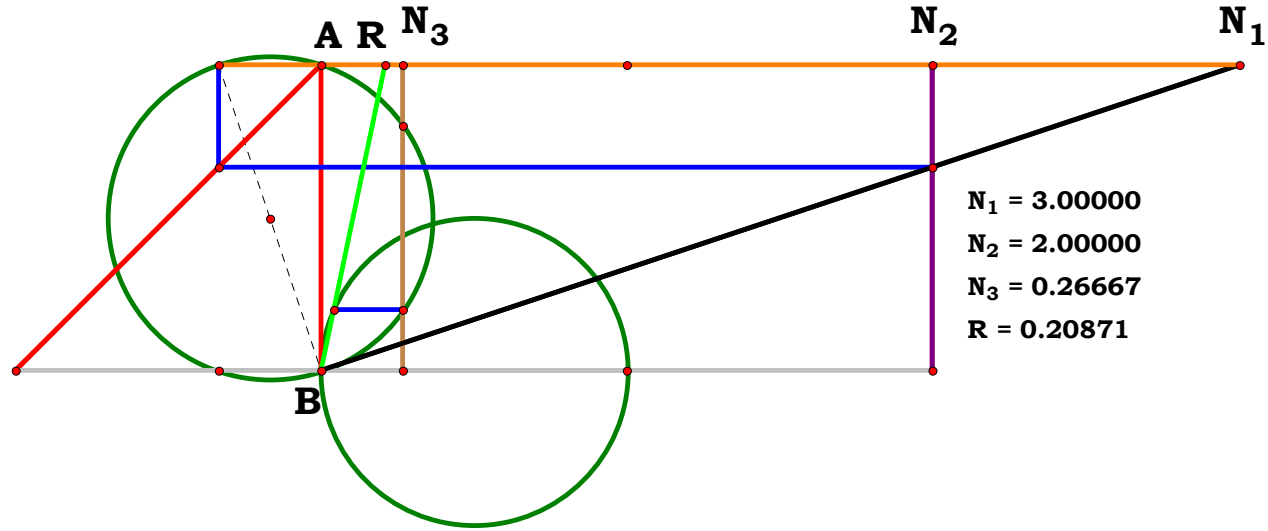
$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2} \quad OT := \sqrt{BO^2 - ST^2}$$

$$BT := BO - OT \quad R := \frac{BT}{ST} \quad R = 0.374325$$



Definitions.

$$R - \frac{\sqrt{4 \cdot N_3 \cdot (AC + N_3)} + 2 \cdot \sqrt{1 - 4 \cdot N_3 \cdot (AC + N_3)} - 1 - 1}{\sqrt{1 - 4 \cdot N_3 \cdot (AC + N_3)} - 1} = 0$$

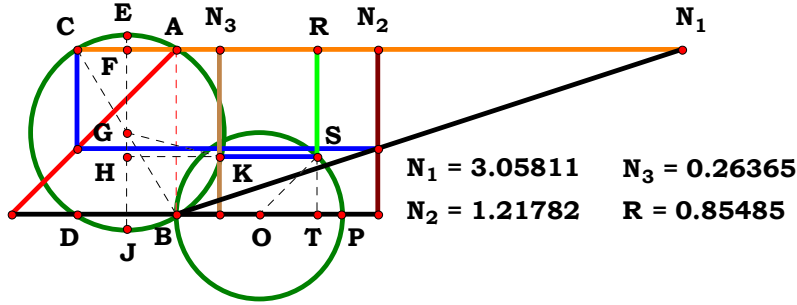
$$\frac{\sqrt{N_1} - \sqrt{((4 \cdot N_3 \cdot ((N_1 - N_2) + N_1 \cdot N_3)) - N_1) + 2 \cdot \sqrt{N_1} \cdot \sqrt{N_1 - (4 \cdot N_3 \cdot ((N_1 - N_2) + N_1 \cdot N_3))}}}{\sqrt{N_1} - \sqrt{N_1 - (4 \cdot N_3 \cdot ((N_1 - N_2) + N_1 \cdot N_3))}} - R = 0.00000$$

$$R - \frac{\sqrt{N_1} - \sqrt{4 \cdot N_3 \cdot (N_1 - N_2 + N_1 \cdot N_3)} - N_1 + 2 \cdot \sqrt{N_1} \cdot \sqrt{N_1 - 4 \cdot N_3 \cdot (N_1 - N_2 + N_1 \cdot N_3)}}{\sqrt{N_1} - \sqrt{N_1 - 4 \cdot N_3 \cdot (N_1 - N_2 + N_1 \cdot N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{4 \cdot \sqrt{A \cdot B} \cdot N_u^2 \cdot (B \cdot C - A \cdot C + B \cdot N_u)} - \sqrt{N_u} \cdot B \cdot C \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - 2 \cdot \sqrt{A} \cdot \sqrt{4 \cdot A \cdot C \cdot N_u^2 + B \cdot N_u \cdot (C^2 - 4 \cdot C \cdot N_u - 4 \cdot N_u^2)} \right]}{\left(C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{4 \cdot A \cdot C \cdot N_u^2 - 4 \cdot B \cdot N_u^3 - 4 \cdot B \cdot C \cdot N_u^2 + B \cdot C^2 \cdot N_u} \right) \cdot (A \cdot B)^{\frac{1}{4}}} = 0$$

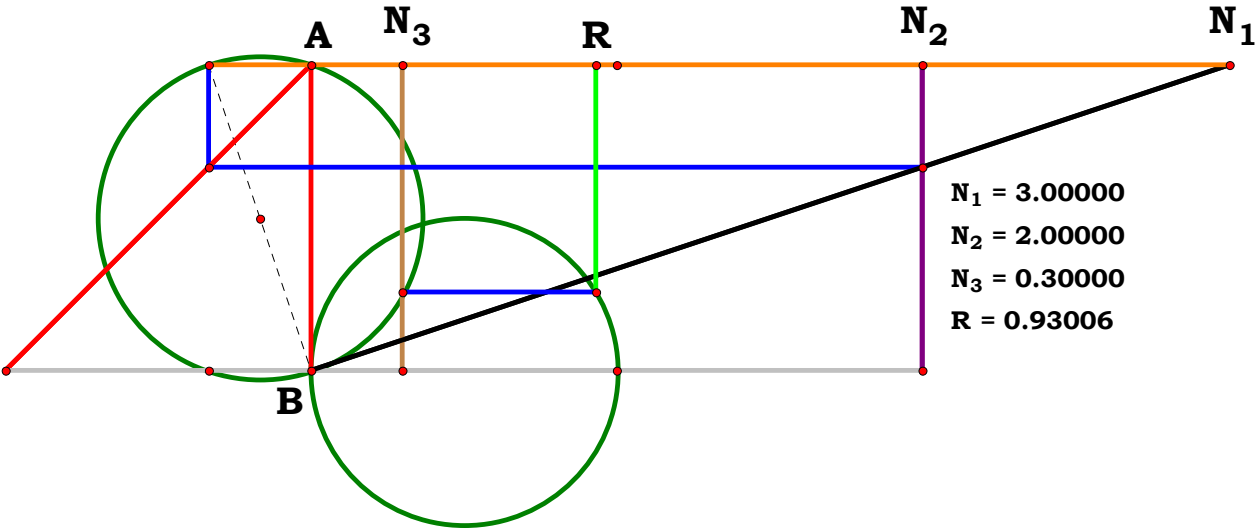
$$R - \frac{\sqrt{X \cdot q \cdot (o \cdot p)^{\frac{3}{4}}} - \sqrt{o} \cdot \sqrt{\sqrt{o \cdot p} \cdot (4 \cdot X \cdot Z^2 \cdot p - X \cdot p \cdot q^2 + 4 \cdot X \cdot Z \cdot p \cdot q - 4 \cdot Y \cdot Z \cdot o \cdot q)} + 2 \cdot \sqrt{X} \cdot \sqrt{o \cdot p \cdot q} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot X \cdot Z^2 \cdot p - 4 \cdot X \cdot Z \cdot p \cdot q + 4 \cdot Y \cdot Z \cdot o \cdot q}}{(o \cdot p)^{\frac{1}{4}} \cdot \left(\sqrt{X \cdot q} \cdot \sqrt{o \cdot p} - \sqrt{o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot X \cdot Z^2 \cdot p - 4 \cdot X \cdot Z \cdot p \cdot q + 4 \cdot Y \cdot Z \cdot o \cdot q} \right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 1.21782$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



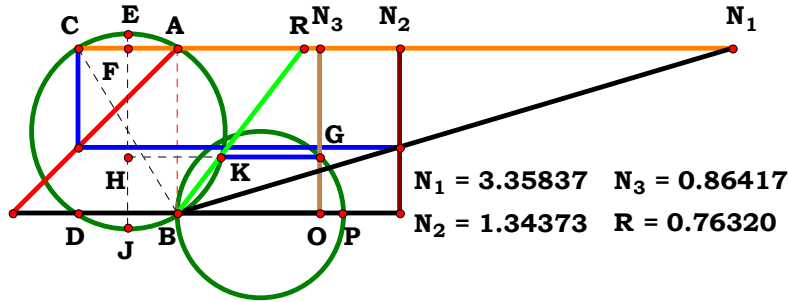
$$\frac{\sqrt{N_1} + \sqrt{((4 \cdot N_3 \cdot ((N_1 - N_2) + N_1 \cdot N_3)) - N_1) + 2 \cdot \sqrt{N_1} \cdot \sqrt{N_1 - (4 \cdot N_3 \cdot ((N_1 - N_2) + N_1 \cdot N_3))}}}{2 \cdot \sqrt{N_1}} - R = 0.00000$$

$$R - \frac{\sqrt{4 \cdot N_3^2 + 4 \cdot AC \cdot N_3 + 2 \cdot \sqrt{1 - 4 \cdot AC \cdot N_3 - 4 \cdot N_3^2 - 1} + 1}}{2} = 0$$

$$R - \frac{\sqrt{N_1} + \sqrt{4 \cdot N_3 \cdot (N_1 - N_2 + N_1 \cdot N_3) - N_1 + 2 \cdot \sqrt{N_1} \cdot \sqrt{N_1 - 4 \cdot N_3 \cdot (N_1 - N_2 + N_1 \cdot N_3)}}}{2 \cdot \sqrt{N_1}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left[B \cdot C^2 + 4 \cdot C \cdot N_u \cdot (A - B) - 4 \cdot B \cdot N_u^2 \right] - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left[B \cdot C^2 + 4 \cdot C \cdot N_u \cdot (A - B) - 4 \cdot B \cdot N_u^2 \right] \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0$$

$$R - \frac{\sqrt{o} \cdot \sqrt{2 \cdot \sqrt{X} \cdot \sqrt{o \cdot p \cdot q} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Z \cdot (X \cdot Z \cdot p + X \cdot p \cdot q - Y \cdot o \cdot q)} - \sqrt{o \cdot p} \cdot \left[X \cdot p \cdot q^2 - 4 \cdot Z \cdot (X \cdot Z \cdot p + X \cdot p \cdot q - Y \cdot o \cdot q) \right] + \sqrt{X \cdot q} \cdot (o \cdot p)^{\frac{3}{4}}}}{2 \cdot \sqrt{X} \cdot (o \cdot p)^{\frac{3}{4}} \cdot q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.35837$ $N_2 := 1.34373$ $N_3 := .86417$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

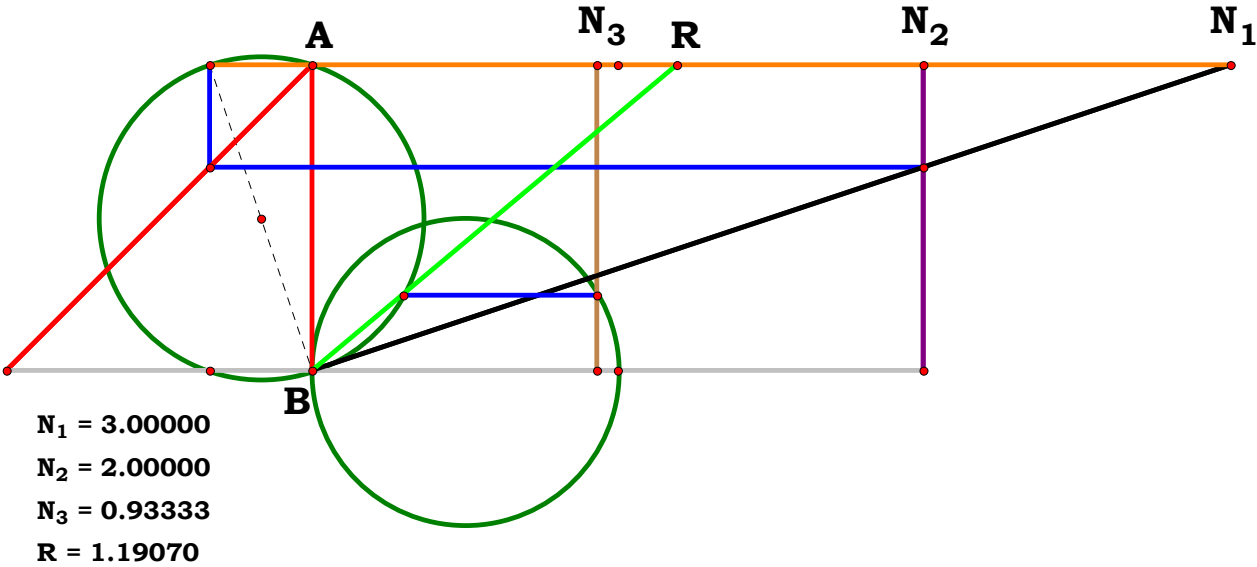
$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BP := AB \quad GO := \sqrt{N_3 \cdot (BP - N_3)}$$

$$HJ := GO + EF \quad HK := \sqrt{HJ \cdot (EJ - HJ)}$$

$$R := \frac{HK - AF}{GO} \quad R = 0.763199$$



Definitions.

$$\frac{\sqrt{(N_1^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (1 - N_3)) - 2 \cdot N_1 \cdot N_2 + N_2^2 + 4 \cdot N_1^2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - (N_1 - N_2)}{2 \cdot N_1 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - R = 0.00000$$

$$R - \frac{\sqrt{AC^2 + 4 \cdot N_3 \cdot (N_3 - 1) + 4 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - AC}{2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} = 0$$

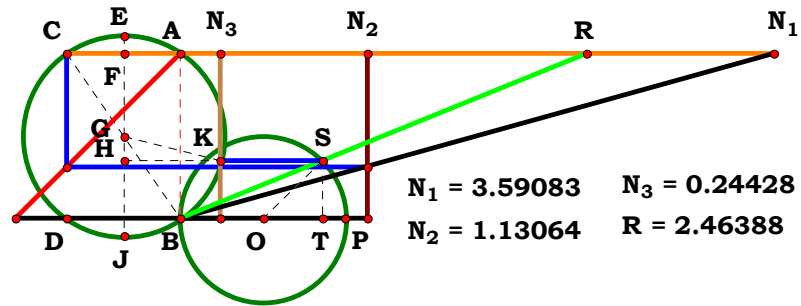
$$R - \frac{\sqrt{N_1^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (1 - N_3) - 2 \cdot N_1 \cdot N_2 + N_2^2 + 4 \cdot N_1^2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - (N_1 - N_2)}{2 \cdot N_1 \cdot \sqrt{N_3 \cdot (1 - N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A - B) + \sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}}}{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot X^2 \cdot Z^2 \cdot p^2 - 4 \cdot X^2 \cdot Z \cdot p^2 \cdot q + X^2 \cdot p^2 \cdot q^2 + Y^2 \cdot o^2 \cdot q^2 + 4 \cdot X^2 \cdot p^2 \cdot q \cdot \sqrt{Z \cdot q - Z^2} - 2 \cdot X \cdot Y \cdot o \cdot p \cdot q^2 - q \cdot (X \cdot p - Y \cdot o)}}{2 \cdot X \cdot p \cdot \sqrt{Z \cdot q - Z^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 3.59083$ $N_2 := 1.13064$ $N_3 := .24428$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

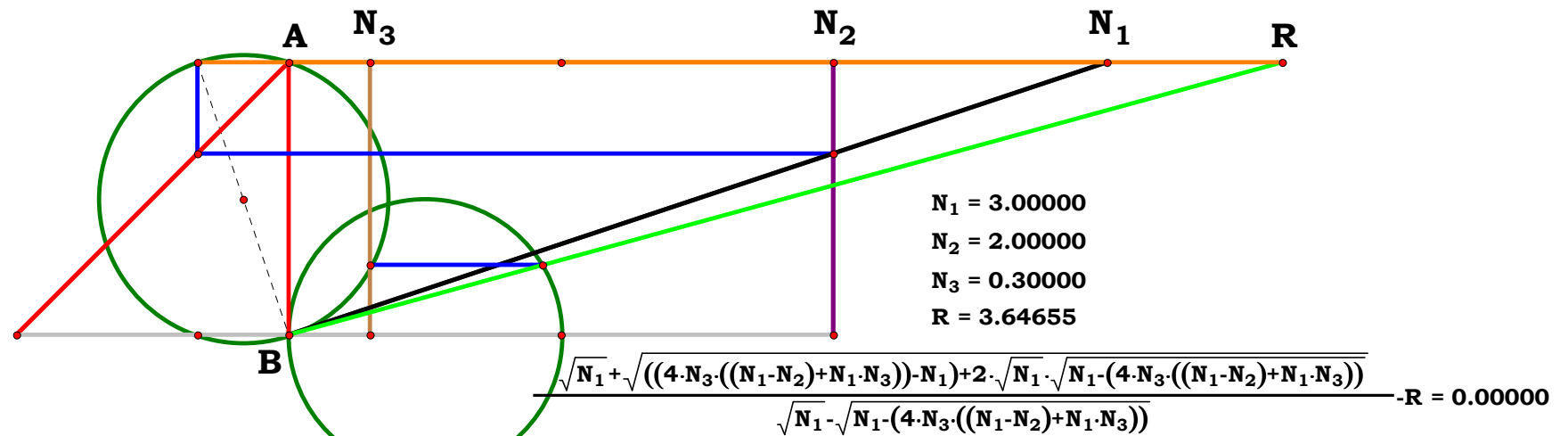
$$\mathbf{AC} := \frac{\mathbf{N}_1 - \mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{AF} := \frac{\mathbf{AC}}{2}$$

$$\mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2} \quad \mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{HK} := \mathbf{AF} + \mathbf{N}_3$$

$$\mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2} \quad \mathbf{ST} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF})$$

$$\mathbf{BP} := \mathbf{AB} \quad \mathbf{BO} := \frac{\mathbf{BP}}{2} \quad \mathbf{OT} := \sqrt{\mathbf{BO}^2 - \mathbf{ST}^2}$$

$$\mathbf{BT} := \mathbf{BO} + \mathbf{OT} \quad \mathbf{R} := \frac{\mathbf{BT}}{\mathbf{ST}} \quad \mathbf{R} = 2.46388$$



Definitions.

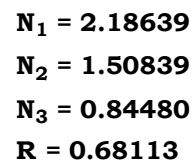
$$R - \frac{\sqrt{4 \cdot N_3 \cdot (AC + N_3)} + 2 \cdot \sqrt{1 - 4 \cdot N_3 \cdot (AC + N_3)} - 1 + 1}{1 - \sqrt{1 - 4 \cdot N_3 \cdot (AC + N_3)}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_1} + \sqrt{4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)} - \mathbf{N}_1 + 2 \cdot \sqrt{\mathbf{N}_1} \cdot \sqrt{\mathbf{N}_1 - 4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)}}{\sqrt{\mathbf{N}_1} - \sqrt{\mathbf{N}_1 - 4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2 + \mathbf{N}_1 \cdot \mathbf{N}_3)}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right]} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{o}} \cdot \sqrt{\sqrt{\mathbf{o} \cdot \mathbf{p}} \cdot (4 \cdot \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} - \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 + 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}) + 2 \cdot \sqrt{\mathbf{X}} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p} \cdot \mathbf{q}} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} - 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}} + \sqrt{\mathbf{X}} \cdot \mathbf{q} \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{3}{4}}}}{(\sqrt{\mathbf{X}} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - \sqrt{\mathbf{o}} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} - 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}}) \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{1}{4}}} = 0$$

4RST10CAB2R3

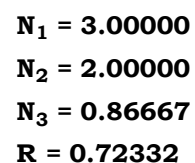

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$
$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{BP} := \mathbf{AB} \quad \mathbf{GO} := \sqrt{\mathbf{N}_3 \cdot (\mathbf{BP} - \mathbf{N}_3)}$$

$$\mathbf{HJ} := \mathbf{GO} + \mathbf{EF} \quad \mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})}$$

$$R := \frac{HK - AF}{GO} \quad R = 0.681133$$



$$\frac{\sqrt{(N_2^2 - 4 \cdot N_1^2 \cdot (N_3 \cdot (1 - N_3))) + 4 \cdot N_1^2 \cdot \sqrt{(N_3 \cdot (1 - N_3))}} \cdot N_2}{2 \cdot N_1 \cdot \sqrt{(N_3 \cdot (1 - N_3))}} \cdot R = 0.00000$$

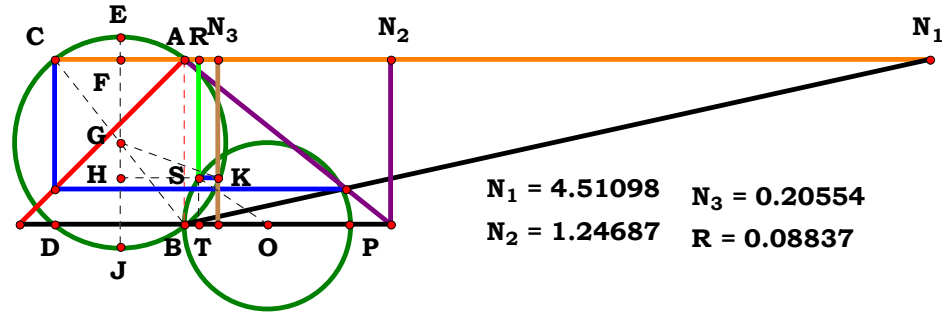
$$R - \frac{\sqrt{N_2^2 - 4 \cdot N_1^2 \cdot N_3 \cdot (1 - N_3)} + 4 \cdot N_1^2 \cdot \sqrt{N_3 \cdot (1 - N_3)} - N_2}{2 \cdot N_1 \cdot \sqrt{N_3 \cdot (1 - N_3)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - A \cdot C}{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\sqrt{4 \cdot X^2 \cdot Z^2 \cdot p^2 + Y^2 \cdot o^2 \cdot q^2 - 4 \cdot X^2 \cdot Z \cdot p^2 \cdot q + 4 \cdot X^2 \cdot p^2 \cdot q \cdot \sqrt{Z \cdot q - Z^2} - Y \cdot o \cdot q}}{2 \cdot X \cdot p \cdot \sqrt{Z \cdot q - Z^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.51098$ $N_2 := 1.24687$ $N_3 := .20554$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

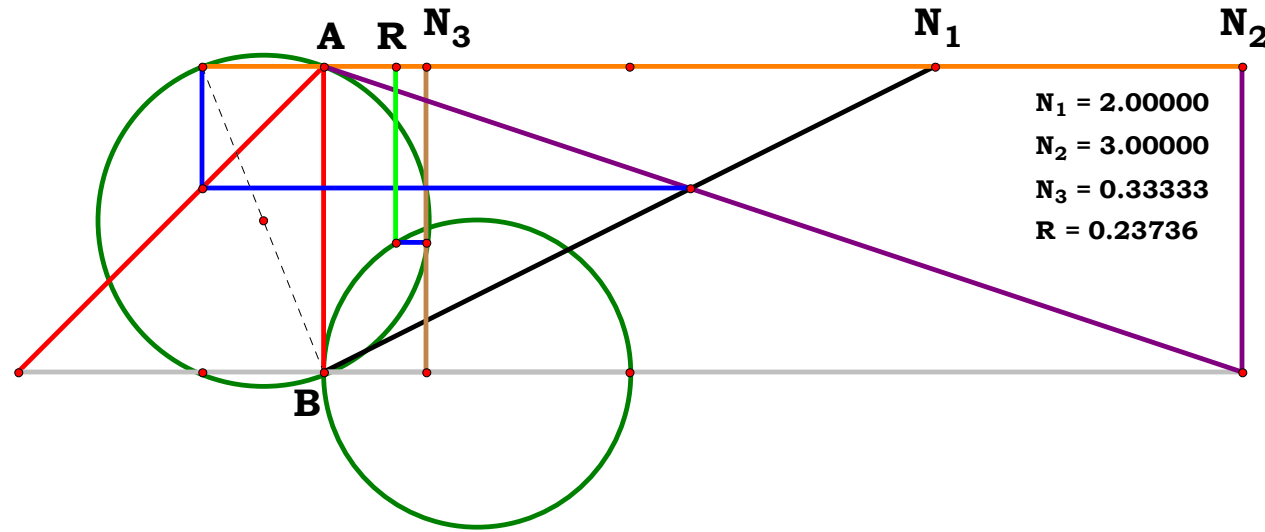
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2} \quad OT := \sqrt{BO^2 - ST^2}$$

$$R := BO - OT \quad R = 0.088378$$



$N_1 = 2.00000$
 $N_2 = 3.00000$
 $N_3 = 0.33333$
 $R = 0.23736$

$$\frac{\sqrt{(N_1+N_2)} - \sqrt{4 \cdot N_1 \cdot N_3 + (N_1+N_2) \cdot (4 \cdot N_3^2 - 1) + 2 \cdot \sqrt{(N_1+N_2)} \cdot \sqrt{(N_1+N_2) - 4 \cdot N_3^2 \cdot (N_1+N_2) - 4 \cdot N_1 \cdot N_3}}}{2 \cdot \sqrt{(N_1+N_2)}} - R = 0.00000$$

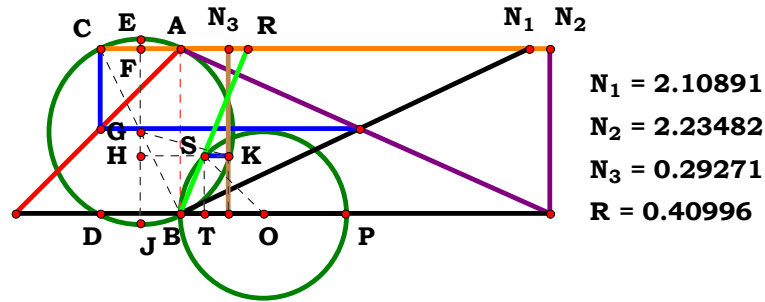
Definitions.

$$R - \frac{\sqrt{N_1 + N_2} - \sqrt{4 \cdot N_1 \cdot N_3 + (4 \cdot N_3^2 - 1) \cdot (N_1 + N_2) + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3^2 \cdot (N_1 + N_2) - 4 \cdot N_1 \cdot N_3}}}{2 \cdot \sqrt{N_1 + N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)}}{2 \cdot C \cdot \sqrt{N_u \cdot (A + B)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{4 \cdot X \cdot Z^2 \cdot p + 4 \cdot Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot X \cdot Z \cdot p \cdot q + 4 \cdot X \cdot Z \cdot p \cdot q}}{2 \cdot \sqrt{X \cdot p + Y \cdot o \cdot q}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.10891$ $N_2 := 2.23482$ $N_3 := .29271$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

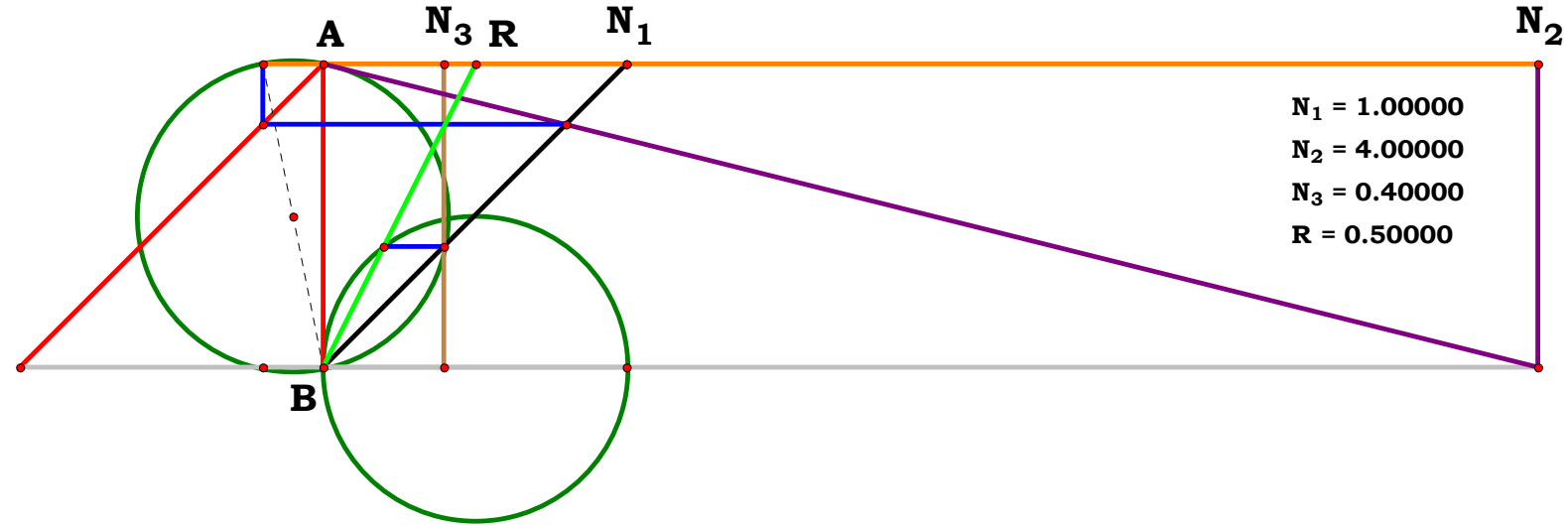
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2} \quad OT := \sqrt{BO^2 - ST^2}$$

$$BT := BO - OT \quad R := \frac{BT}{ST} \quad R = 0.409965$$



$$\frac{\sqrt{(N_1+N_2)} - \sqrt{((4 \cdot N_3 \cdot (N_1+N_1 \cdot N_3+N_2 \cdot N_3)) - (N_1+N_2)) + 2 \cdot \sqrt{(N_1+N_2)} \cdot \sqrt{(N_1+N_2) - (4 \cdot N_3 \cdot (N_1+N_1 \cdot N_3+N_2 \cdot N_3))}}}{\sqrt{(N_1+N_2)} - \sqrt{(N_1+N_2) - (4 \cdot N_3 \cdot (N_1+N_1 \cdot N_3+N_2 \cdot N_3))}} - R = 0.00000$$

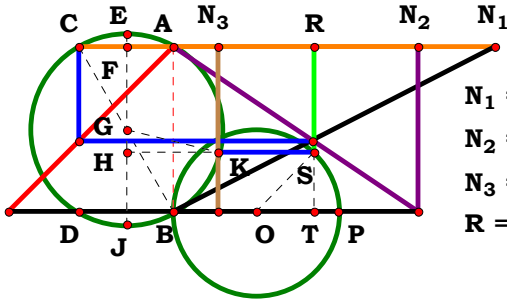
Definitions.

$$R - \frac{\sqrt{N_1 + N_2} - \sqrt{4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2) + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}}}{\sqrt{N_1 + N_2} - \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)}} - A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u)}{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{(2 \cdot Z - q) \cdot (2 \cdot Z + q) \cdot (X \cdot p + Y \cdot o) + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{(q^2 - 4 \cdot Z^2) \cdot (X \cdot p + Y \cdot o) - 4 \cdot X \cdot Z \cdot p \cdot q + 4 \cdot X \cdot Z \cdot p \cdot q}}}{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{(q^2 - 4 \cdot Z^2) \cdot (X \cdot p + Y \cdot o) - 4 \cdot X \cdot Z \cdot p \cdot q}} = 0$$



$N_1 = 1.94425$
 $N_2 = 1.47933$
 $N_3 = 0.27334$
 $R = 0.84867$

Unit. $AB := 1$ Given. $N_1 := 1.94425$ $N_2 := 1.47933$ $N_3 := .27334$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

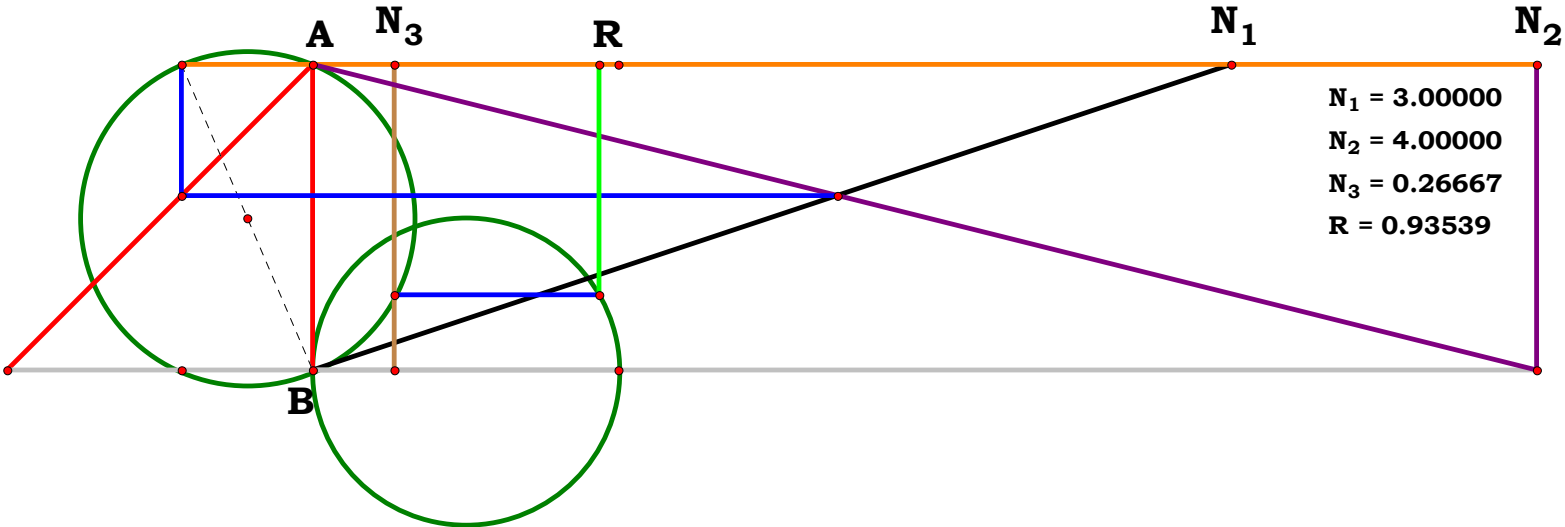
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad R := BO + OT$$

$$R = 0.848658$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 0.26667$
 $R = 0.93539$

$$\frac{\sqrt{(N_1+N_2)}+\sqrt{((4\cdot N_3\cdot(N_1+N_1\cdot N_3+N_2\cdot N_3))-(N_1+N_2))+2\cdot\sqrt{(N_1+N_2)}\cdot\sqrt{(N_1+N_2)-(4\cdot N_3\cdot(N_1+N_1\cdot N_3+N_2\cdot N_3))}}}{2\cdot\sqrt{(N_1+N_2)}}-R = 0.00000$$

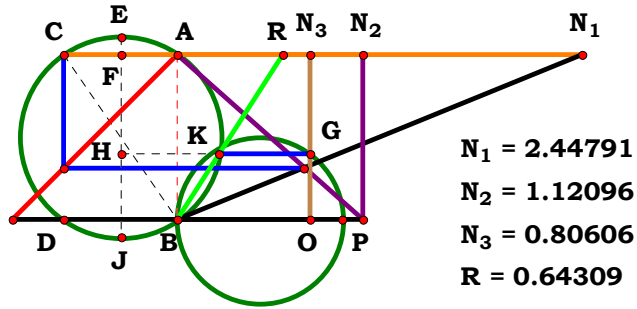
Definitions.

$$R - \frac{\sqrt{N_1 + N_2} + \sqrt{4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2)} + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}}{2 \cdot \sqrt{N_1 + N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)} + C \cdot \sqrt{N_u \cdot (A + B)}}{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot Z^2 \cdot (X \cdot p + Y \cdot o) - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 4 \cdot X \cdot Z \cdot p \cdot q + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot X \cdot Z \cdot p \cdot q + q \cdot \sqrt{X \cdot p + Y \cdot o}}}}{2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.44791$ $N_2 := 1.12096$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

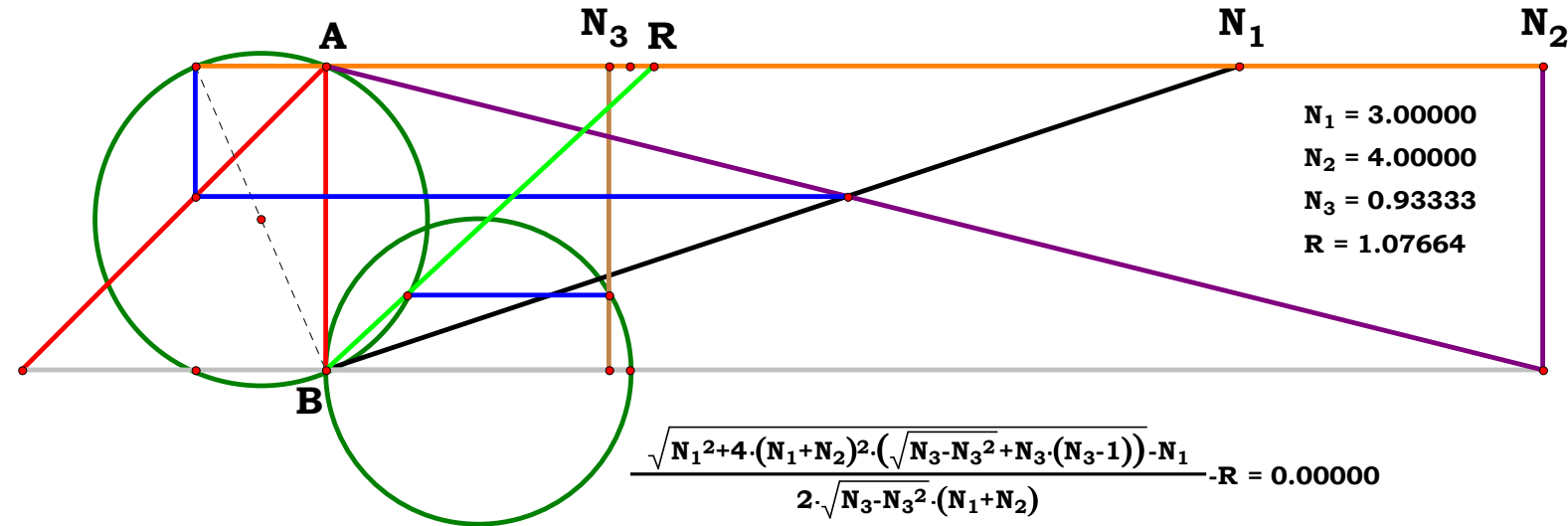
$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BP := AB \quad GO := \sqrt{N_3 \cdot (BP - N_3)}$$

$$HJ := GO + EF \quad HK := \sqrt{HJ \cdot (EJ - HJ)}$$

$$R := \frac{HK - AF}{GO} \quad R = 0.643092$$



Definitions.

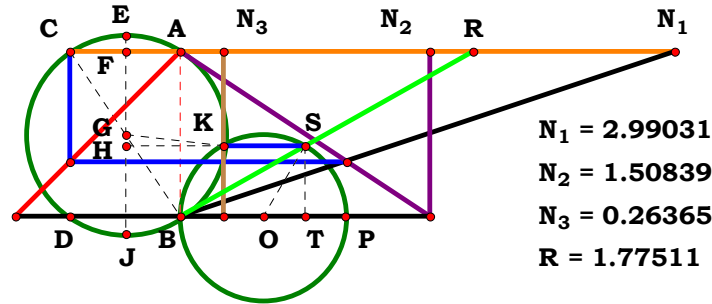
$$R - \frac{\sqrt{N_1^2 + 4 \cdot (N_1 + N_2)^2 \cdot (\sqrt{N_3 - N_3^2 + N_3 \cdot (N_3 - 1)})} - N_1}{2 \cdot \sqrt{N_3 - N_3^2 \cdot (N_1 + N_2)}} = 0$$

$$N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 - 4 \cdot N_u \cdot (A + B)^2 \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2} - B \cdot C}}{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}} = 0$$

$$N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot q \cdot (X \cdot p + Y \cdot o)^2 \cdot \sqrt{Z \cdot q - Z^2} + X^2 \cdot p^2 \cdot (2 \cdot Z - q)^2 + 4 \cdot Y \cdot Z \cdot o \cdot (Z - q) \cdot (2 \cdot X \cdot p + Y \cdot o) - X \cdot p \cdot q}}{2 \cdot (X \cdot p + Y \cdot o) \cdot \sqrt{Z \cdot q - Z^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.99031$ $N_2 := 1.50829$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

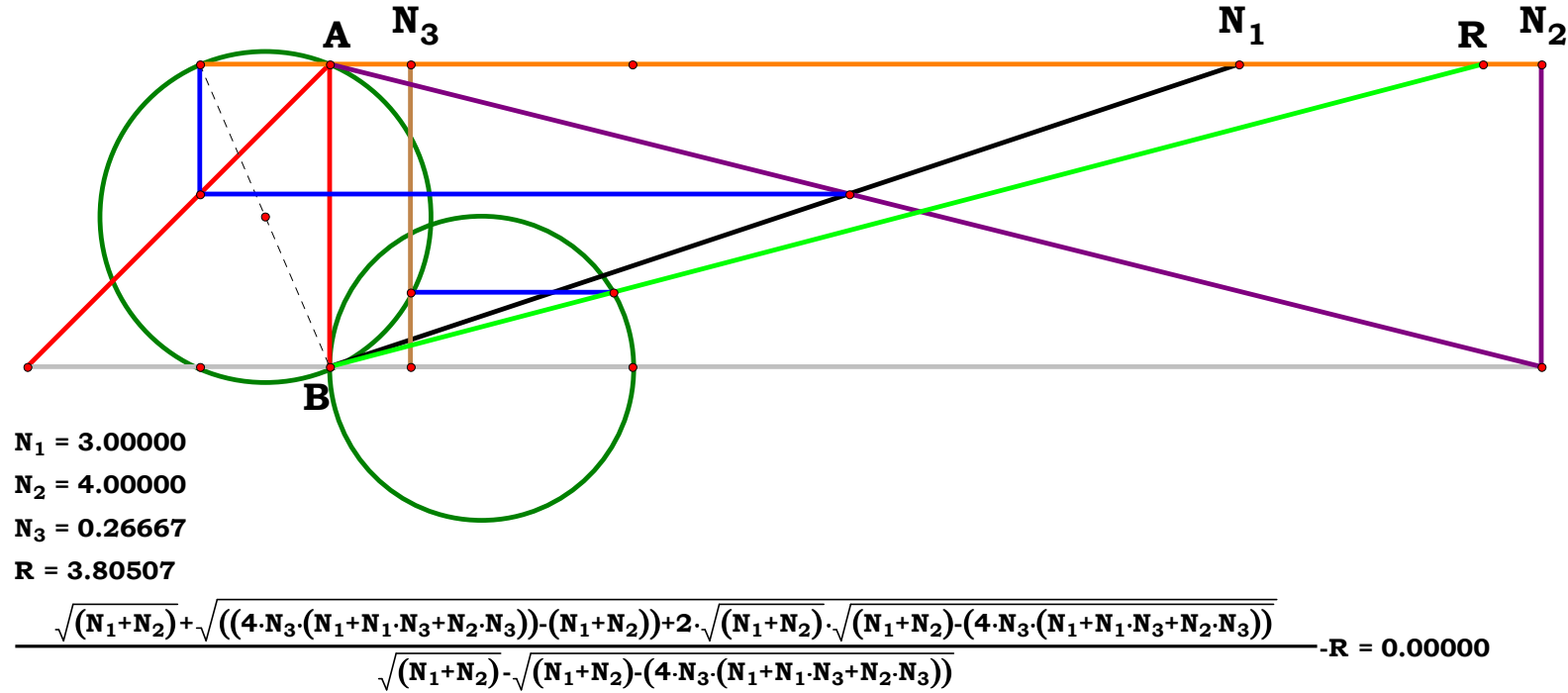
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad BT := BO + OT$$

$$R := \frac{BT}{ST} \quad R = 1.77501$$

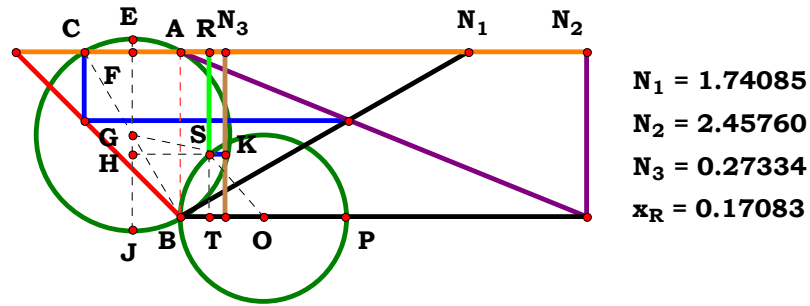


Definitions.

$$R - \frac{\sqrt{N_1 + N_2} + \sqrt{4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2)} + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}}{\sqrt{N_1 + N_2} - \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_1 + N_1 \cdot N_3 + N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{2 \cdot C \cdot \sqrt{A + B} \cdot \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A + B) - 4 \cdot B \cdot C \cdot N_u} - [(C^2 - 4 \cdot N_u^2) \cdot (A + B) - 4 \cdot B \cdot C \cdot N_u]} + C \cdot \sqrt{A + B}}{C \cdot \sqrt{A + B} - \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A + B) - 4 \cdot B \cdot C \cdot N_u}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{(2 \cdot Z - q) \cdot (2 \cdot Z + q) \cdot (X \cdot p + Y \cdot o) + 4 \cdot X \cdot Z \cdot p \cdot q + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot X \cdot Z \cdot p \cdot q} + q \cdot \sqrt{X \cdot p + Y \cdot o}}}{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot X \cdot Z \cdot p \cdot q}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.74085$ $N_2 := 2.45760$ $N_3 := .27334$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

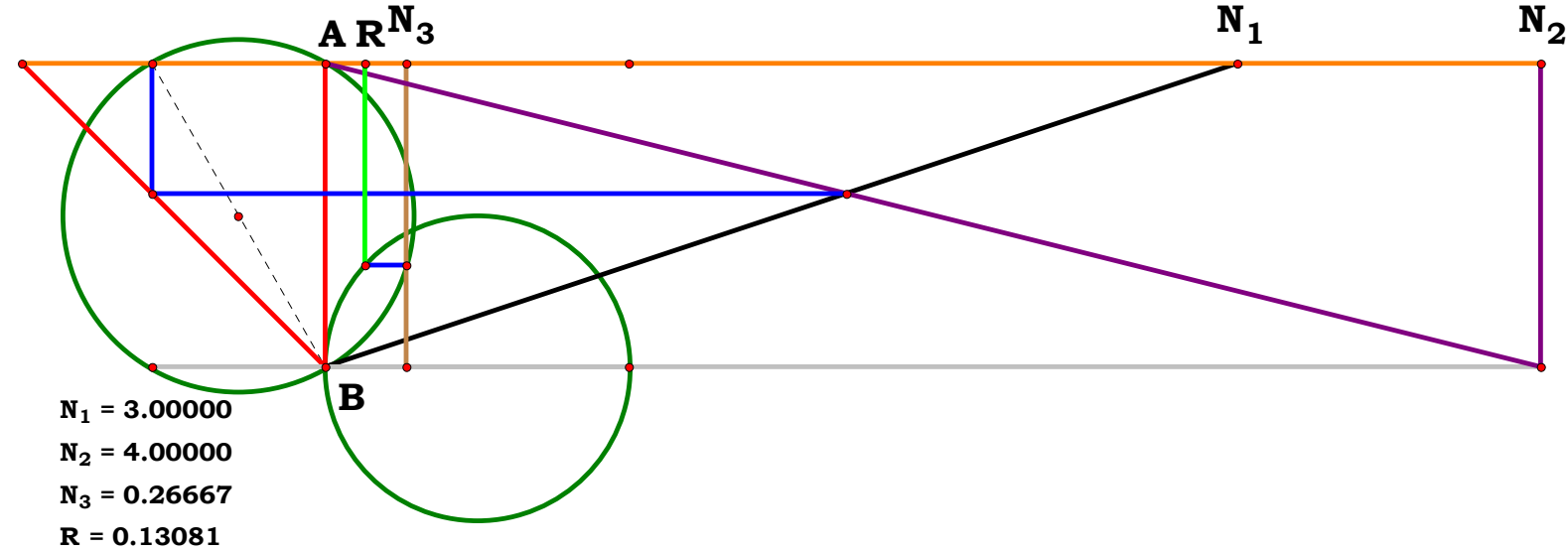
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad R := BO - OT$$

$$R = 0.170846$$



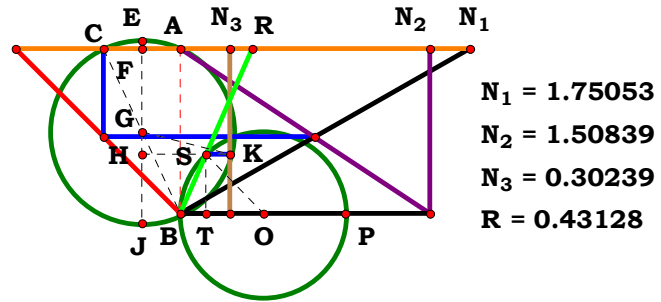
$$\frac{\sqrt{(N_1 + N_2)} - \sqrt{((4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)) - (N_1 + N_2)) + 2 \cdot \sqrt{(N_1 + N_2)} \cdot \sqrt{(N_1 + N_2) - (4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3))}}}{2 \cdot \sqrt{(N_1 + N_2)}} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1 + N_2} - \sqrt{4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2) + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}}}{2 \cdot \sqrt{N_1 + N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot \sqrt{(A + B)} - \sqrt{2 \cdot C \cdot \sqrt{(A + B)} \cdot \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A + B) - 4 \cdot A \cdot C \cdot N_u} - \left[(C^2 - 4 \cdot N_u^2) \cdot (A + B) - 4 \cdot A \cdot C \cdot N_u \right]}}{2 \cdot \sqrt{(A + B)} \cdot C} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{(2 \cdot Z - q) \cdot (2 \cdot Z + q) \cdot (X \cdot p + Y \cdot o) + 4 \cdot Y \cdot Z \cdot o \cdot q + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z \cdot o \cdot q}}}{2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.50839$ $N_3 := .30239$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

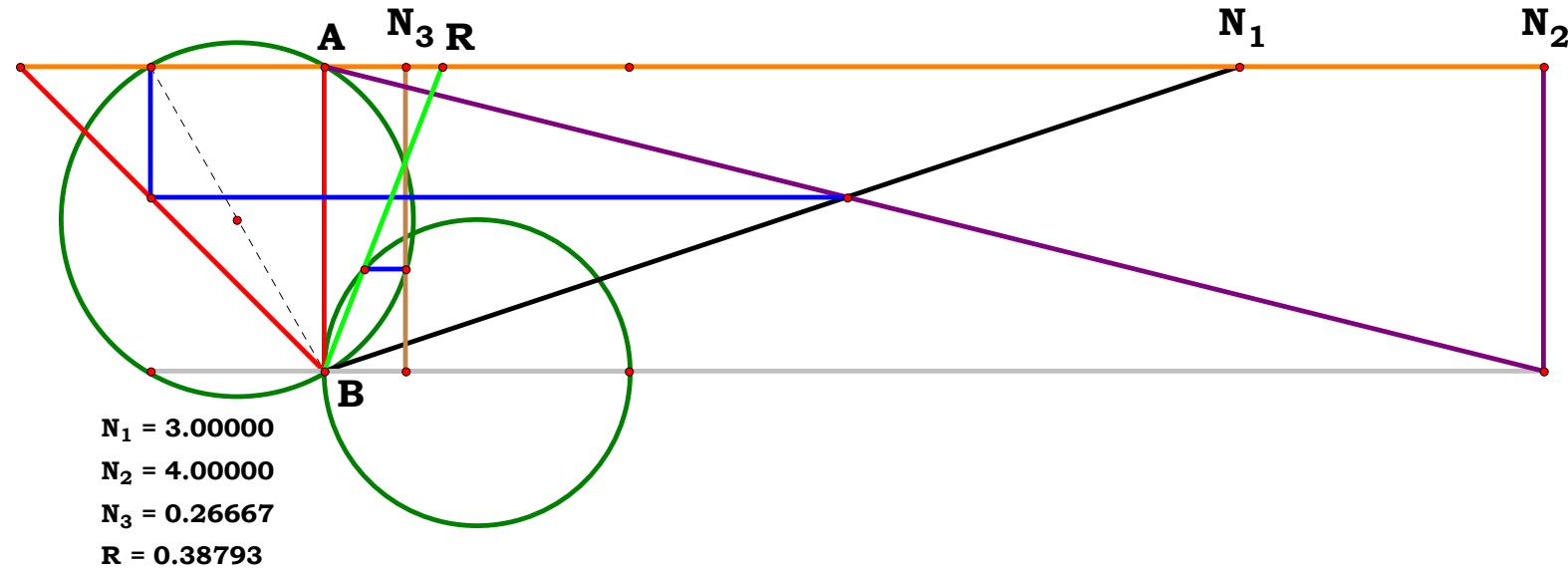
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad BT := BO - OT$$

$$R := \frac{BT}{ST} \quad R = 0.431244$$



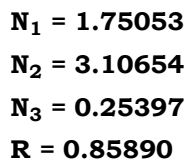
$$\frac{\sqrt{(N_1+N_2)} - \sqrt{((4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3)) - (N_1+N_2)) + 2 \cdot \sqrt{(N_1+N_2)} \cdot \sqrt{(N_1+N_2) - (4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3))}}}{\sqrt{(N_1+N_2)} - \sqrt{(N_1+N_2) - (4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3))}} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1+N_2} - \sqrt{4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3) - (N_1+N_2) + 2 \cdot \sqrt{N_1+N_2} \cdot \sqrt{N_1+N_2 - 4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3)}}}{\sqrt{N_1+N_2} - \sqrt{N_1+N_2 - 4 \cdot N_3 \cdot (N_2+N_1 \cdot N_3+N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot \sqrt{(A+B)} - \sqrt{2 \cdot C \cdot \sqrt{(A+B)} \cdot \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u} - \left[(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u \right]}}{C \cdot \sqrt{(A+B)} - \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{4 \cdot X \cdot Z^2 \cdot p + 4 \cdot Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z \cdot o \cdot q + 4 \cdot Y \cdot Z \cdot o \cdot q}}{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z \cdot o \cdot q}} = 0$$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2}{\mathbf{N}_1 + \mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

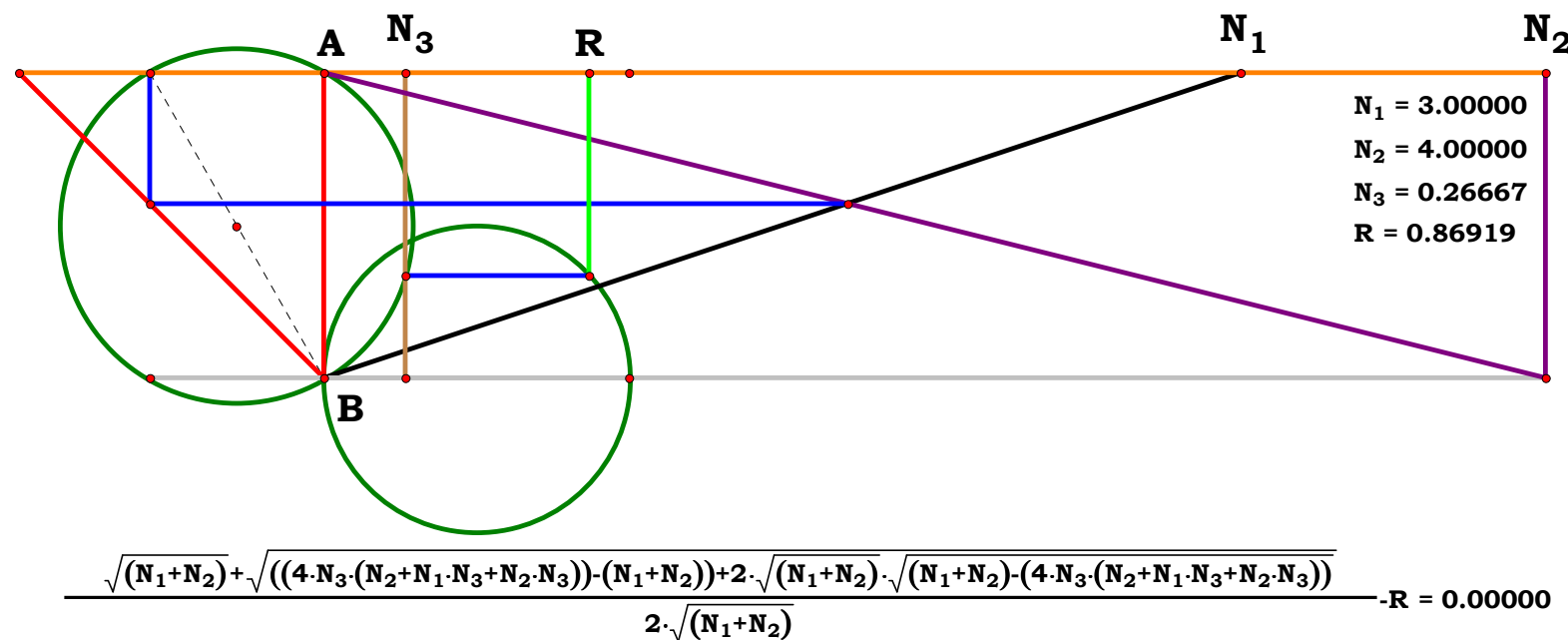
$$\mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{HK} := \mathbf{AF} + \mathbf{N}_3$$

$$\mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2} \quad \mathbf{ST} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF})$$

$$\mathbf{BP} := \mathbf{AB} \qquad \mathbf{BO} := \frac{\mathbf{BP}}{2}$$

$$\mathbf{OT} := \sqrt{\mathbf{BO}^2 - \mathbf{ST}^2} \quad \mathbf{R} := \mathbf{BO} + \mathbf{OT}$$

R = 0.858888



Definitions.

$$R - \frac{\sqrt{N_1 + N_2} + \sqrt{4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2)} + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}}{2 \cdot \sqrt{N_1 + N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u)} - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) - B \cdot C^2 \cdot N_u + C \cdot \sqrt{N_u \cdot (A + B)}}{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C} = 0$$

$$\mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$\mathbf{R} - \frac{\sqrt{4 \cdot \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} - \mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 + 2 \cdot \mathbf{q} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} - 4 \cdot \mathbf{X} \cdot \mathbf{Z}^2 \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q} + \mathbf{q} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}}}}{2 \cdot \mathbf{q} \cdot \sqrt{\mathbf{X} \cdot \mathbf{p} + \mathbf{Y} \cdot \mathbf{o}}} = 0$$



Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BP := AB \quad GO := \sqrt{N_3 \cdot (BP - N_3)}$$

$$HJ := GO + EF \quad HK := \sqrt{HJ \cdot (EJ - HJ)}$$

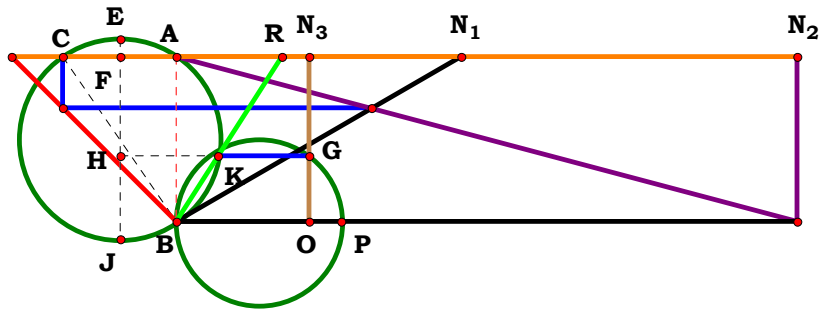
$$R := \frac{HK - AF}{GO} \quad R = 0.643209$$

Definitions.

$$R - \frac{\sqrt{4 \cdot (N_1 + N_2)^2 \cdot \left[\sqrt{N_3 - N_3^2} - N_3 \cdot (1 - N_3) \right] + N_2^2 - N_2}}{2 \cdot (N_1 + N_2) \cdot \sqrt{N_3 - N_3^2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{4 \cdot (A + B)^2 \cdot \left[N_u^2 - C \cdot N_u + C \cdot \sqrt{N_u \cdot (C - N_u)} \right] + A^2 \cdot C^2 - A \cdot C}}{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot q \cdot (X \cdot p + Y \cdot o)^2 \cdot \sqrt{Z \cdot q - Z^2} + 4 \cdot X \cdot Z \cdot p \cdot (Z - q) \cdot (X \cdot p + 2 \cdot Y \cdot o) + Y^2 \cdot o^2 \cdot (2 \cdot Z - q)^2 - Y \cdot o \cdot q}}{2 \cdot (X \cdot p + Y \cdot o) \cdot \sqrt{Z \cdot q - Z^2}} = 0$$

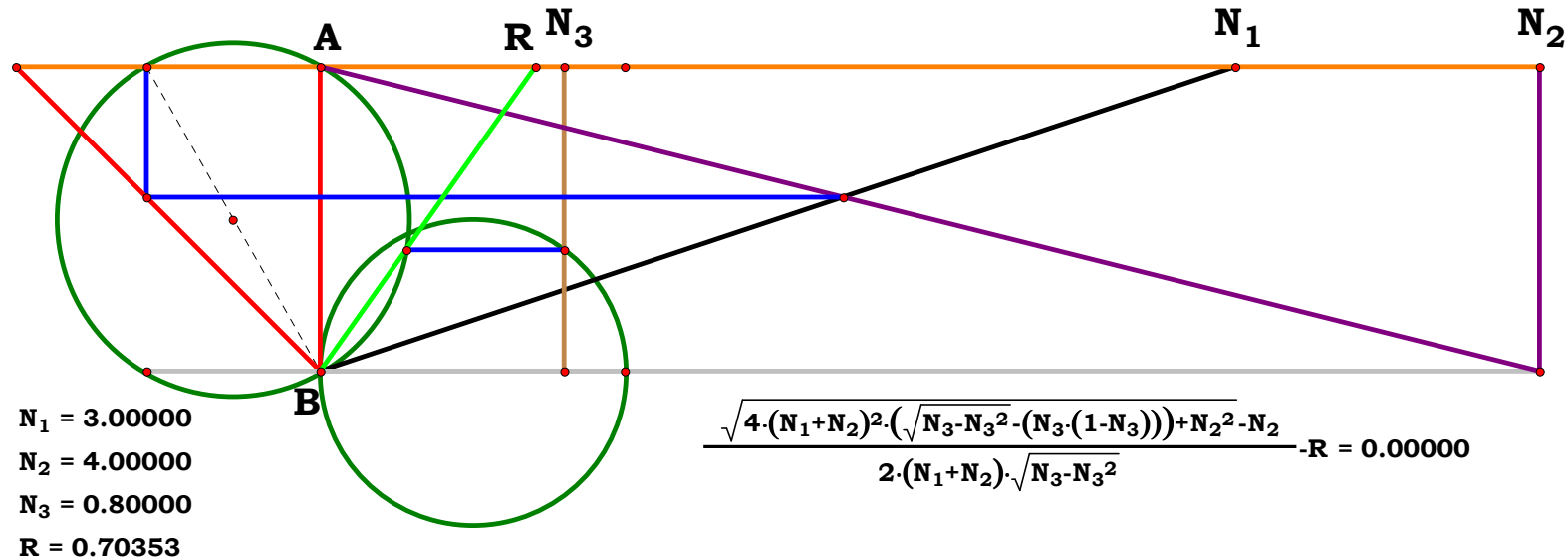


$$\begin{aligned} N_1 &= 1.72148 \\ N_2 &= 3.75549 \\ N_3 &= 0.80606 \\ R &= 0.64320 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.72148 \quad N_2 := 3.75549 \quad N_3 := .80606$$

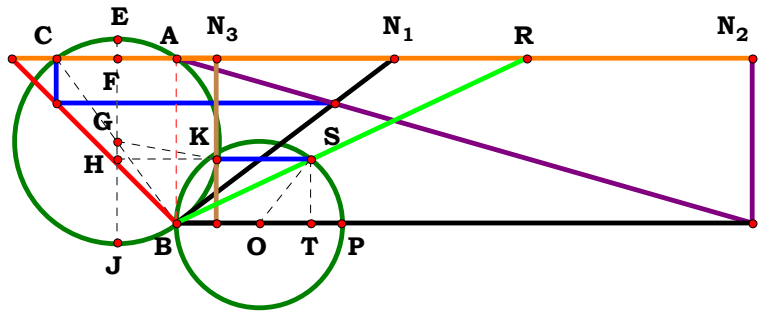
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$



$$\begin{aligned} N_1 &= 3.00000 \\ N_2 &= 4.00000 \\ N_3 &= 0.80000 \\ R &= 0.70353 \end{aligned}$$

$$\frac{\sqrt{4 \cdot (N_1 + N_2)^2 \cdot (\sqrt{N_3 - N_3^2} \cdot (N_3 \cdot (1 - N_3))) + N_2^2 - N_2}}{2 \cdot (N_1 + N_2) \cdot \sqrt{N_3 - N_3^2}} - R = 0.00000$$



$N_1 = 1.31467$
 $N_2 = 3.48429$
 $N_3 = 0.24428$
 $R = 2.11761$

Unit. $AB := 1$ Given. $N_1 := 1.31467$ $N_2 := 3.48429$ $N_3 := .24428$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

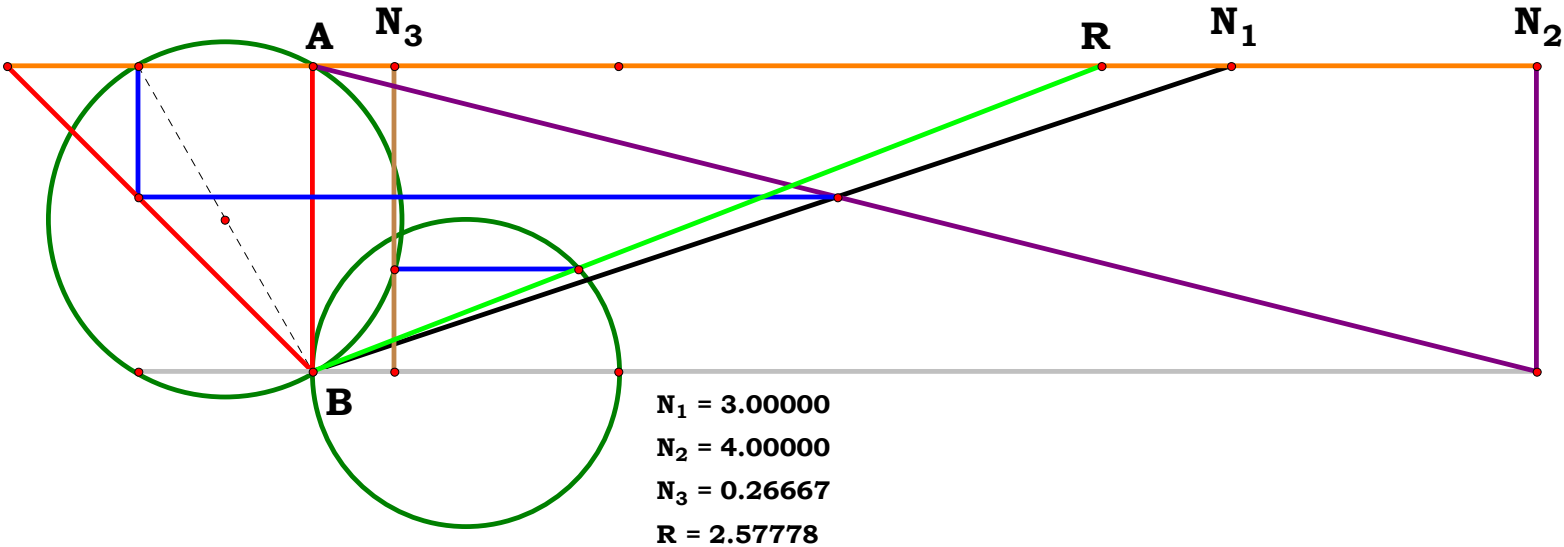
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad BT := BO + OT$$

$$R := \frac{BT}{ST} \quad R = 2.117603$$



$N_1 = 3.00000$
 $N_2 = 4.00000$
 $N_3 = 0.26667$
 $R = 2.57778$

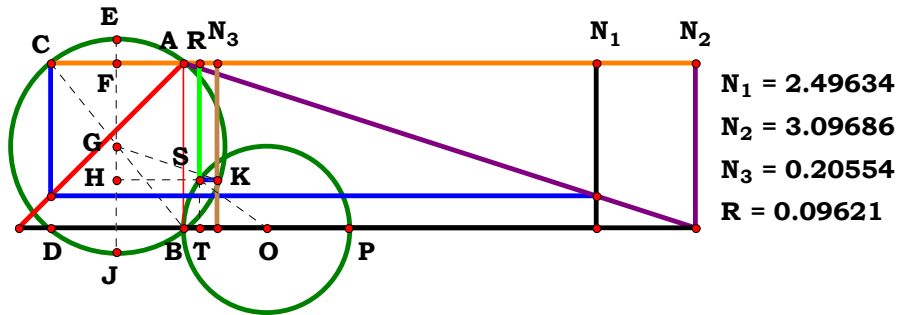
$$\frac{\sqrt{(N_1+N_2)}+\sqrt{((4\cdot N_3\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3))-(N_1+N_2))+2\cdot\sqrt{(N_1+N_2)}\cdot\sqrt{(N_1+N_2)-(4\cdot N_3\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3))}}}{\sqrt{(N_1+N_2)}-\sqrt{(N_1+N_2)-(4\cdot N_3\cdot(N_2+N_1\cdot N_3+N_2\cdot N_3))}}-R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1 + N_2} + \sqrt{4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3) - (N_1 + N_2) + 2 \cdot \sqrt{N_1 + N_2} \cdot \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}}}{\sqrt{N_1 + N_2} - \sqrt{N_1 + N_2 - 4 \cdot N_3 \cdot (N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{2 \cdot C \cdot \sqrt{(A+B)} \cdot \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u} - \left[(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u \right] + C \cdot \sqrt{(A+B)}}}{C \cdot \sqrt{(A+B)} - \sqrt{(C^2 - 4 \cdot N_u^2) \cdot (A+B) - 4 \cdot A \cdot C \cdot N_u}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot X \cdot Z^2 \cdot p + 4 \cdot Y \cdot Z^2 \cdot o - X \cdot p \cdot q^2 - Y \cdot o \cdot q^2 + 2 \cdot q \cdot \sqrt{X \cdot p + Y \cdot o} \cdot \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z \cdot o \cdot q + 4 \cdot Y \cdot Z \cdot o \cdot q + q \cdot \sqrt{X \cdot p + Y \cdot o}}}}{q \cdot \sqrt{X \cdot p + Y \cdot o} - \sqrt{X \cdot p \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o - 4 \cdot X \cdot Z^2 \cdot p + Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z \cdot o \cdot q}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 3.09686$ $N_3 := .20554$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

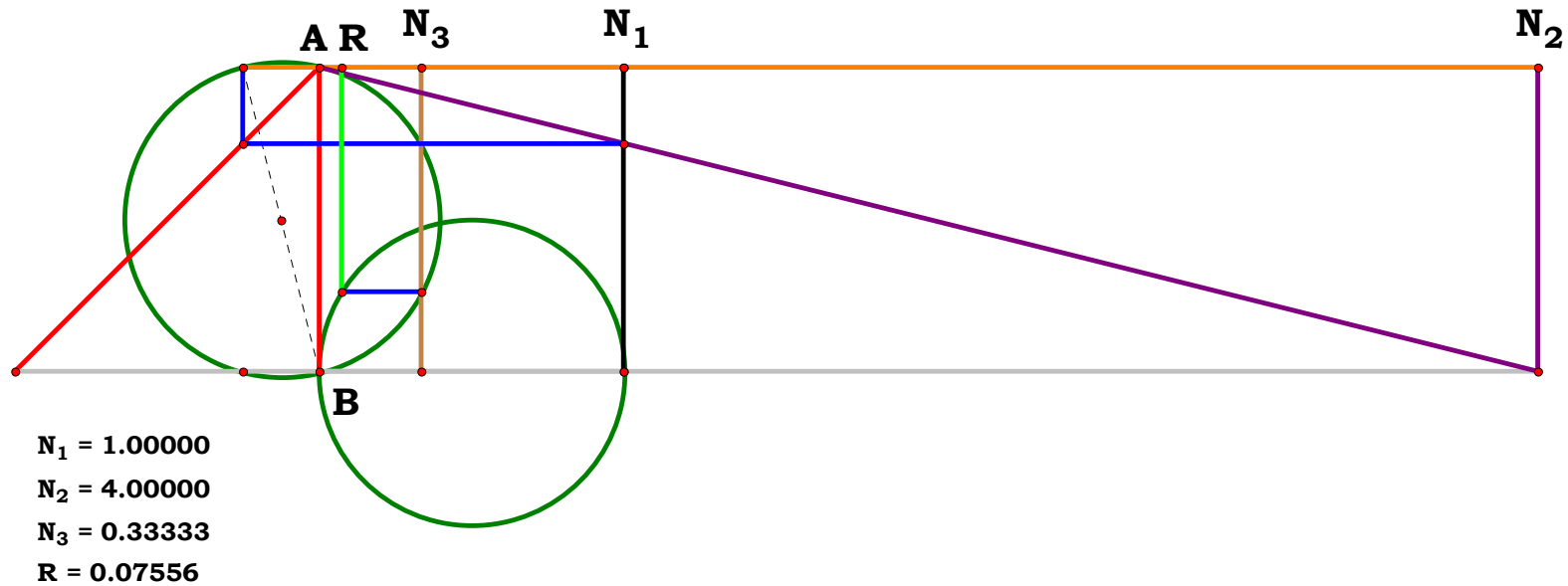
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad R := BO - OT$$

$$R = 0.096218$$



$N_1 = 1.00000$
 $N_2 = 4.00000$
 $N_3 = 0.33333$
 $R = 0.07556$

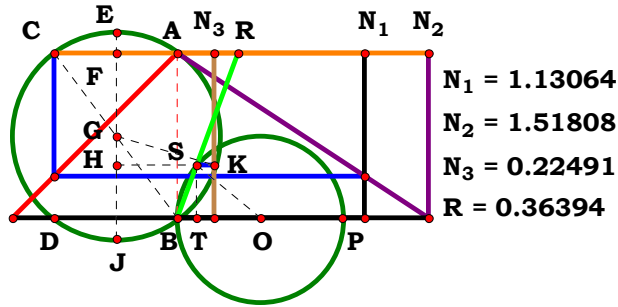
$$\frac{\sqrt{N_2} - \sqrt{((4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)) - N_2) + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - (4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3))}}}{2 \cdot \sqrt{N_2}} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_2} - \sqrt{4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3) - N_2 + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)}}}{2 \cdot \sqrt{N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{\left[2 \cdot A \cdot B^{\frac{3}{2}} \cdot C \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)} - \left[A \cdot B \cdot (C^2 - 4 \cdot N_u^2) - 4 \cdot B^2 \cdot C \cdot N_u \right] \cdot \sqrt{A \cdot B} \right]}}{2 \cdot C \cdot (A \cdot B)^{\frac{3}{4}}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Y \cdot q \cdot (o \cdot p)^{\frac{3}{4}}} - \sqrt{p \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} + 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y \cdot o \cdot \sqrt{p \cdot q} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2}}}}}{2 \cdot \sqrt{Y \cdot (o \cdot p)^{\frac{3}{4}}} \cdot q} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.13064$ $N_2 := 1.51808$ $N_3 := .22491$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

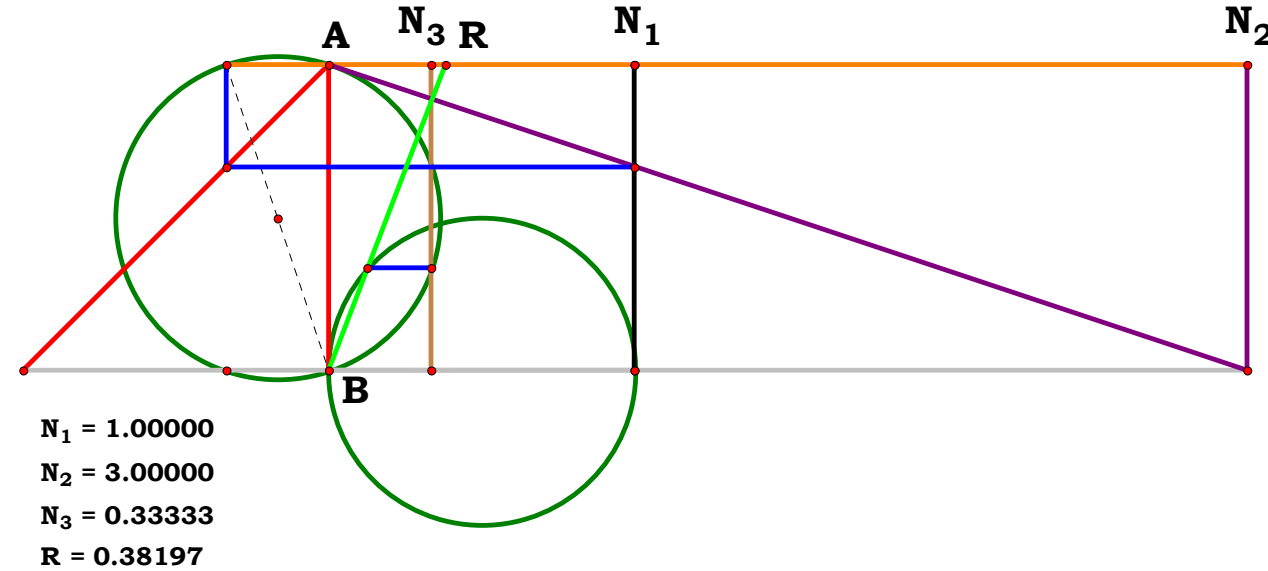
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad BT := BO - OT$$

$$R := \frac{BT}{ST} \quad R = 0.363945$$



$$\frac{\sqrt{((4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)) - N_2) + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - (4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3))}} - \sqrt{N_2}}{\sqrt{N_2 - (4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3))} - \sqrt{N_2}} \cdot R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3) - N_2 + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)}} - \sqrt{N_2}}{\sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)} - \sqrt{N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)} - [A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)] \cdot \sqrt{A \cdot B}}{(A \cdot B)^{\frac{1}{4}} \cdot [C \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)}}] = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{Y \cdot q \cdot (o \cdot p)^{\frac{3}{4}}} - \sqrt{p} \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} + 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y \cdot o} \cdot \sqrt{p \cdot q} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2}}}{(o \cdot p)^{\frac{1}{4}} \cdot (\sqrt{Y \cdot q \cdot \sqrt{o \cdot p}} - \sqrt{p} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2})} = 0$$



Descriptions.

$$AC := \frac{N_1}{N_2} \qquad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \qquad EF := \frac{EJ - AB}{2}$$

$$GK := \frac{EJ}{2} \qquad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \qquad ST := GK - (GH + EF)$$

$$BP := AB \qquad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \qquad R := BO + OT$$

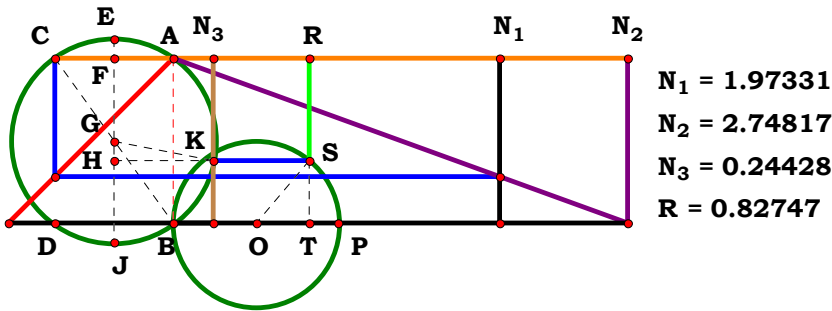
$$R = 0.827471$$

Definitions.

$$R - \frac{\sqrt{N_2 + \sqrt{4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3) - N_2 + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)}}}}{2 \cdot \sqrt{N_2}} = 0 \qquad N_1 - \frac{N_u}{A} = 0 \qquad N_2 - \frac{N_u}{B} = 0 \qquad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right) \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0 \qquad N_1 - \frac{X}{o} = 0 \qquad N_2 - \frac{Y}{p} = 0 \qquad N_3 - \frac{Z}{q} = 0$$

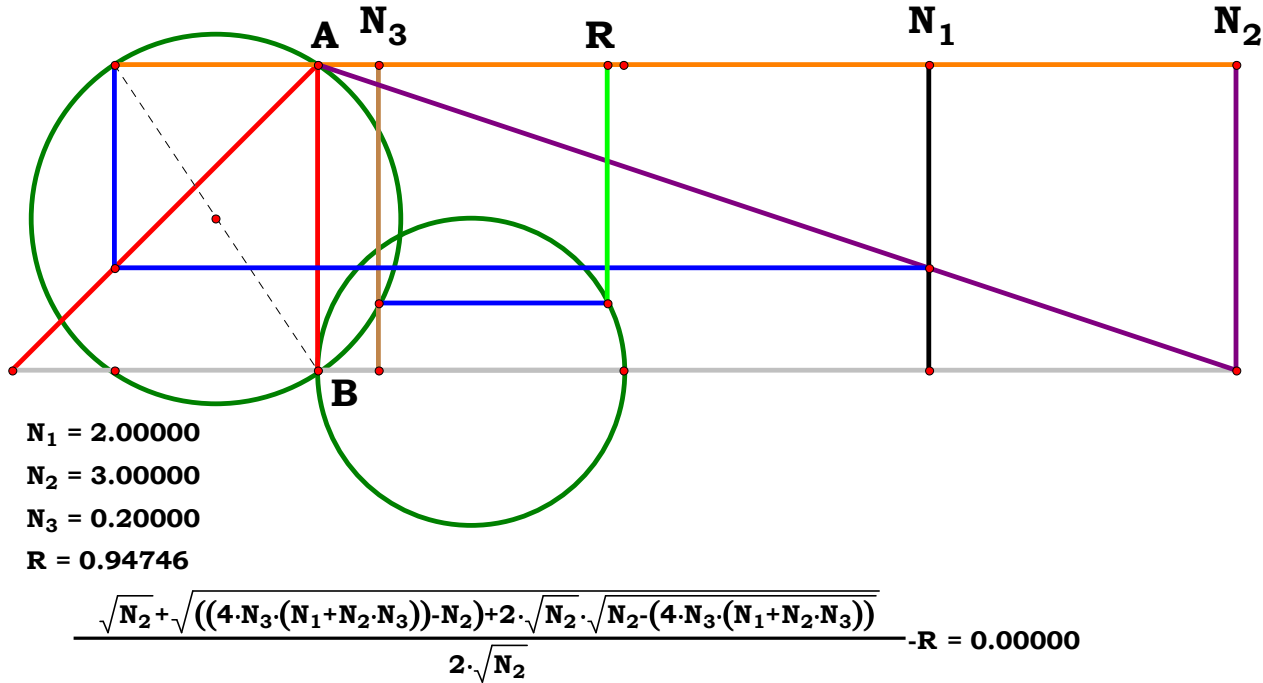
$$R - \frac{\sqrt{p} \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} + 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y} \cdot o \cdot \sqrt{p} \cdot q \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2}} + \sqrt{Y} \cdot q \cdot (o \cdot p)^{\frac{3}{4}}}}{2 \cdot \sqrt{Y} \cdot (o \cdot p)^{\frac{3}{4}} \cdot q} = 0$$

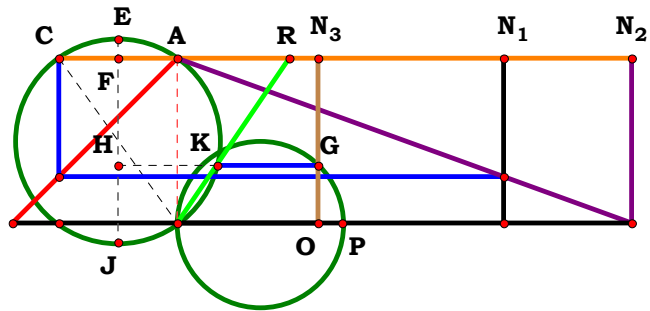


Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .24428$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

$$X := 20 \qquad Y := 19 \qquad Z := 18 \qquad o := \frac{X}{N_1} \qquad p := \frac{Y}{N_2} \qquad q := \frac{Z}{N_3}$$





$N_1 = 1.97331$
 $N_2 = 2.74817$
 $N_3 = 0.85448$
 $R = 0.67671$

Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .85448$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

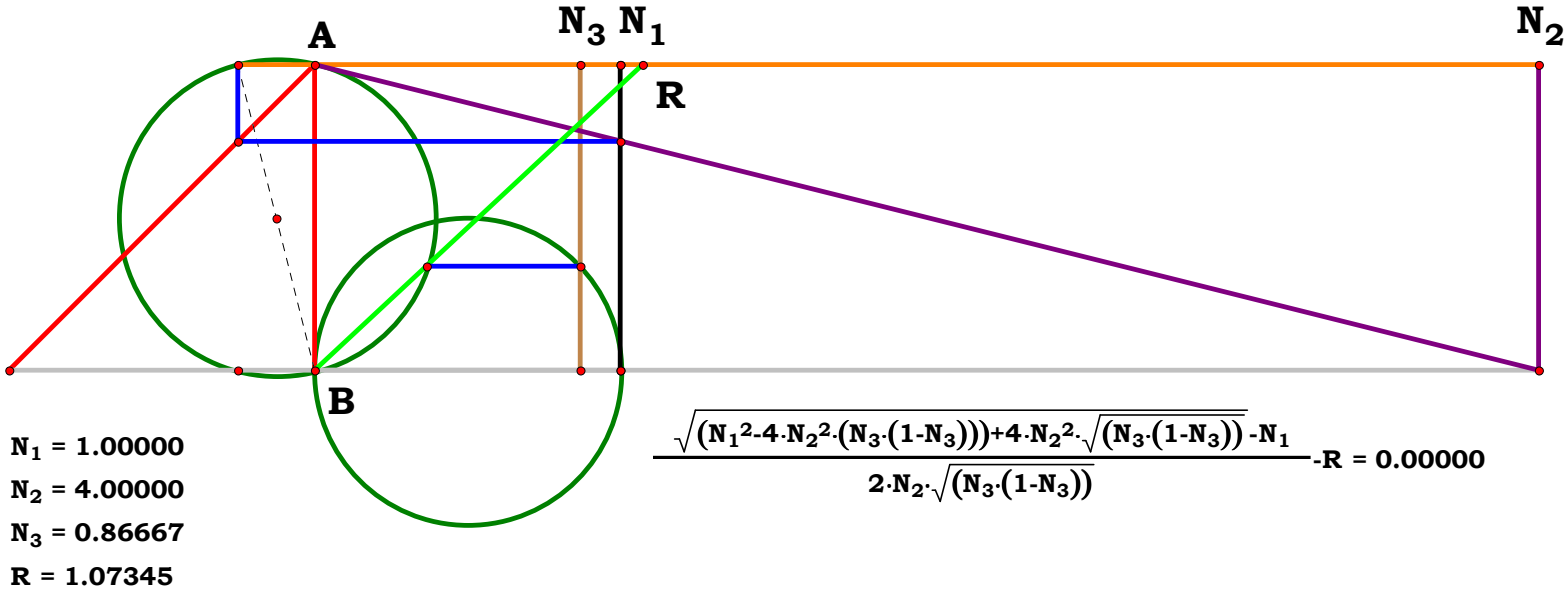
$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

$$BP := AB \quad GO := \sqrt{N_3 \cdot (BP - N_3)}$$

$$HJ := GO + EF \quad HK := \sqrt{HJ \cdot (EJ - HJ)}$$

$$R := \frac{HK - AF}{GO} \quad R = 0.6767$$



$N_1 = 1.00000$
 $N_2 = 4.00000$
 $N_3 = 0.86667$
 $R = 1.07345$

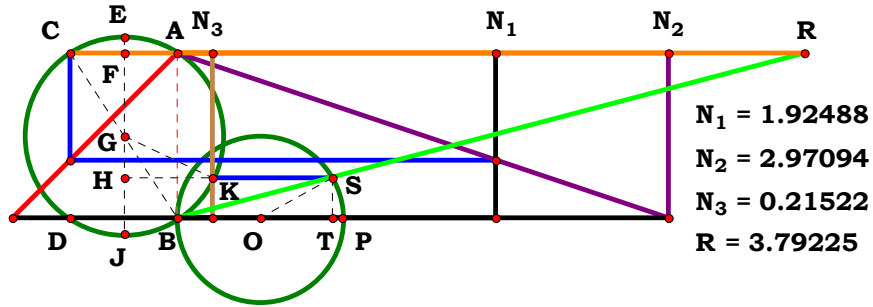
$$\frac{\sqrt{(N_1^2 - 4 \cdot N_2^2 \cdot (N_3 \cdot (1 - N_3))) + 4 \cdot N_2^2 \cdot \sqrt{(N_3 \cdot (1 - N_3))}} - N_1}{2 \cdot N_2 \cdot \sqrt{(N_3 \cdot (1 - N_3))}} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_1^2 - 4 \cdot N_2^2 \cdot N_3 \cdot (1 - N_3) + 4 \cdot N_2^2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - N_1}{2 \cdot N_2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C}{2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{4 \cdot Y^2 \cdot Z^2 \cdot o^2 + X^2 \cdot p^2 \cdot q^2 - 4 \cdot Y^2 \cdot Z \cdot o^2 \cdot q + 4 \cdot Y^2 \cdot o^2 \cdot q \cdot \sqrt{Z \cdot q - Z^2}} - X \cdot p \cdot q}{2 \cdot Y \cdot o \cdot \sqrt{Z \cdot q - Z^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.92488$ $N_2 := 2.97094$ $N_3 := .21522$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

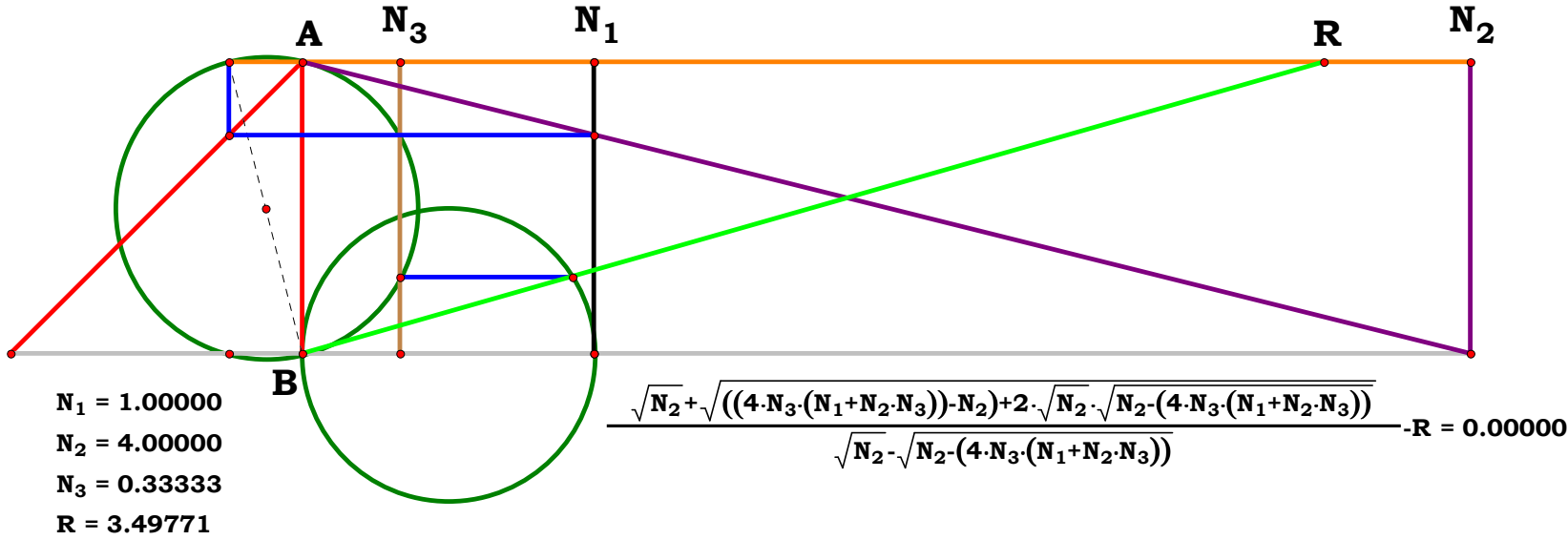
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad BT := BO + OT$$

$$R := \frac{BT}{ST} \quad R = 3.792343$$

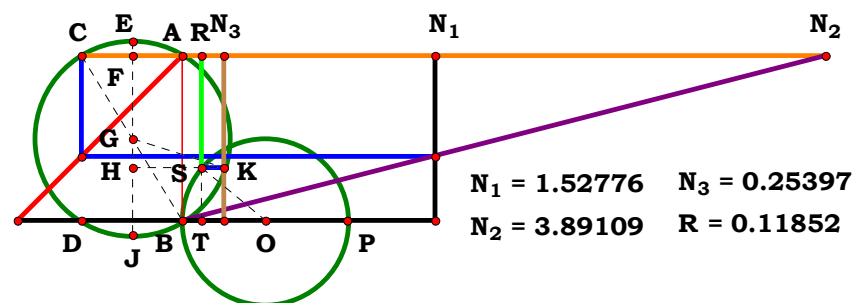


Definitions.

$$R - \frac{\sqrt{N_2} + \sqrt{4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3) - N_2 + 2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)}}}{\sqrt{N_2} - \sqrt{N_2 - 4 \cdot N_3 \cdot (N_1 + N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} + \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)}} - \left[A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u) \right] \cdot \sqrt{A \cdot B}}{\left[C \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (B \cdot C + A \cdot N_u)} \right] \cdot (A \cdot B)^{\frac{1}{4}}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{p} \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} + 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y \cdot o} \cdot \sqrt{p \cdot q} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2}} + \sqrt{Y \cdot q} \cdot (o \cdot p)^{\frac{3}{4}}}{(o \cdot p)^{\frac{1}{4}} \cdot \left(\sqrt{Y \cdot q} \cdot \sqrt{o \cdot p} - \sqrt{p} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot X \cdot p \cdot Z \cdot q - 4 \cdot Y \cdot o \cdot Z^2} \right)} = 0$$



Unit. AB := 1 Given. $N_1 := 1.52776$ $N_2 := 3.89109$ $N_3 := .25397$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2} \quad \mathbf{C} := \frac{\mathbf{N}_u}{\mathbf{N}_3}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

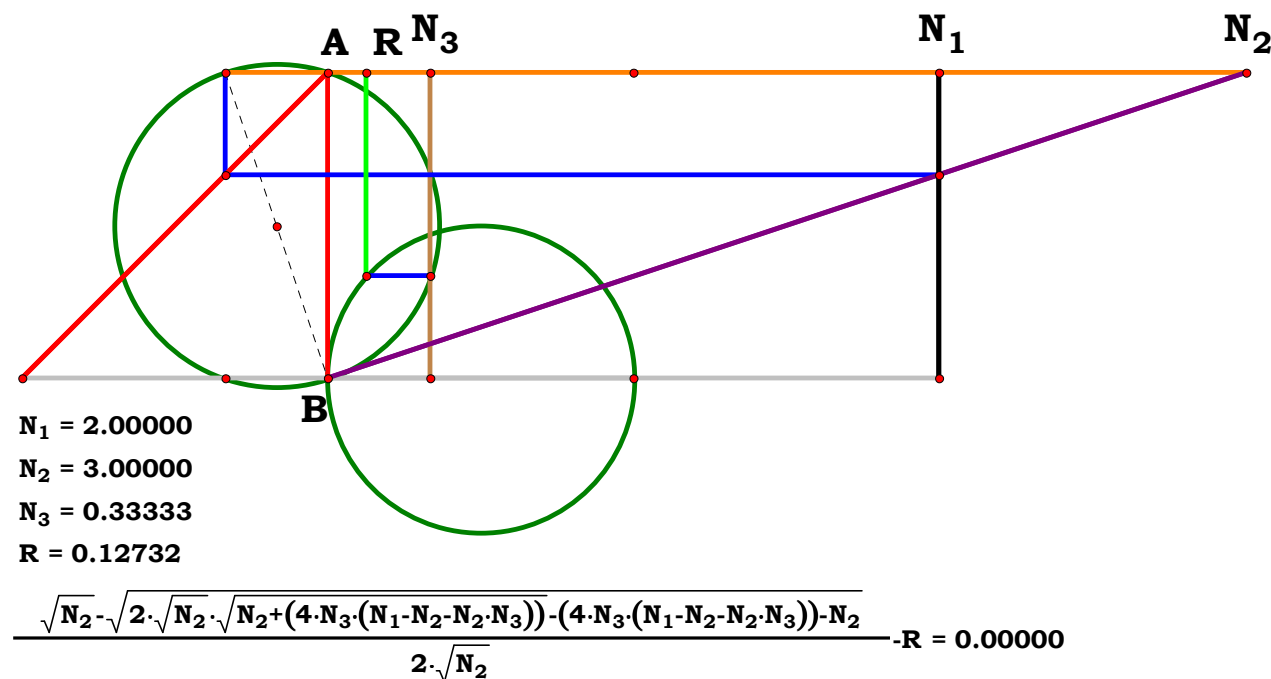
$$\mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{HK} := \mathbf{AF} + \mathbf{N}_3$$

$$\mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2} \quad \mathbf{ST} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF})$$

$$\mathbf{BP} := \mathbf{AB} \qquad \mathbf{BO} := \frac{\mathbf{BP}}{2}$$

$$\mathbf{OT} := \sqrt{\mathbf{BO}^2 - \mathbf{ST}^2} \quad \mathbf{R} := \mathbf{BO} - \mathbf{OT}$$

R = 0.118531

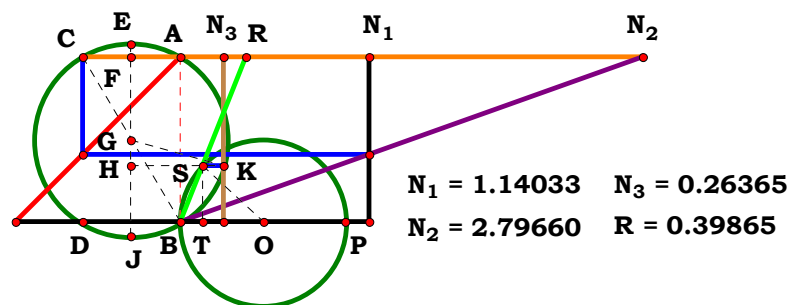


Definitions.

$$\mathbf{R} - \frac{\sqrt{\mathbf{N}_2} - \sqrt{2 \cdot \sqrt{\mathbf{N}_2} \cdot \sqrt{\mathbf{N}_2 + 4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3)}} - 4 \cdot \mathbf{N}_3 \cdot (\mathbf{N}_1 - \mathbf{N}_2 - \mathbf{N}_2 \cdot \mathbf{N}_3) - \mathbf{N}_2}{2 \cdot \sqrt{\mathbf{N}_2}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot (A \cdot C - B \cdot C + A \cdot N_u)} - [A \cdot C^2 - 4 \cdot N_u \cdot (A \cdot C - B \cdot C + A \cdot N_u)] \cdot \sqrt{A \cdot B}}{2 \cdot C \cdot (A \cdot B)^{\frac{3}{4}}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y} \cdot \mathbf{q} \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{3}{4}} - \sqrt{\mathbf{p}} \cdot \sqrt{4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} + 2 \cdot \sqrt{\mathbf{Y} \cdot \mathbf{o}} \cdot \sqrt{\mathbf{p}} \cdot \mathbf{q} \cdot \sqrt{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} + 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}}}{2 \cdot \sqrt{\mathbf{Y}} \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{3}{4}} \cdot \mathbf{q}} = 0$$

Unit. AB := 1 Given. $N_1 := 1.14033$ $N_2 := 2.79660$ $N_3 := .26365$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

Descriptions.

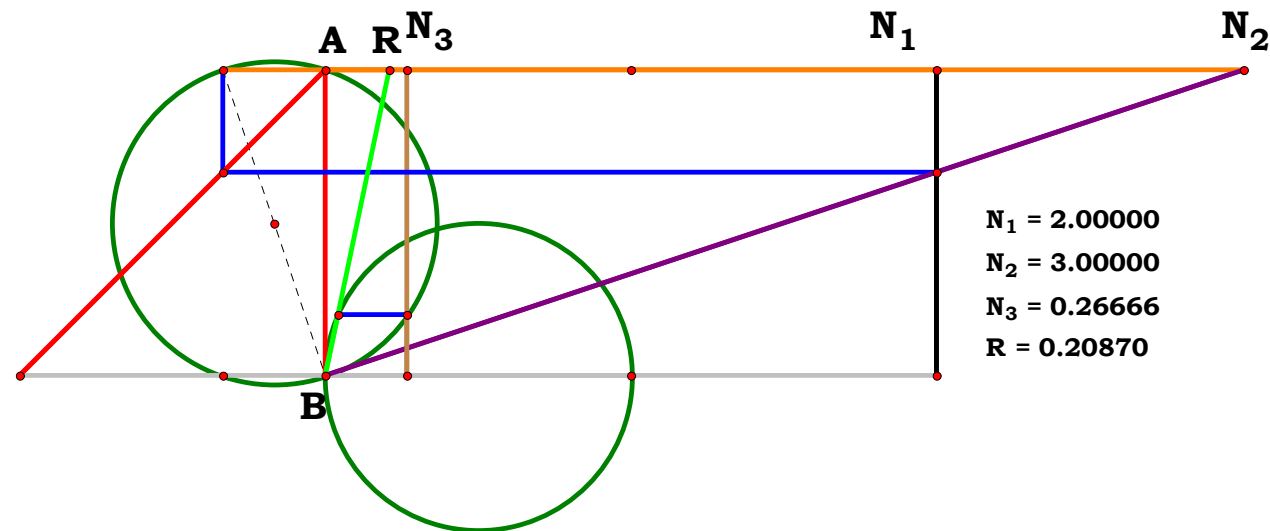
$$\mathbf{AC} := \frac{N_2 - N_1}{N_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{AF} := \frac{\mathbf{AC}}{2}$$

$$\mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2} \quad \mathbf{GK} := \frac{\mathbf{EJ}}{2} \quad \mathbf{HK} := \mathbf{AF} + \mathbf{N}_3$$

$$\mathbf{GH} := \sqrt{\mathbf{GK}^2 - \mathbf{HK}^2} \quad \mathbf{ST} := \mathbf{GK} - (\mathbf{GH} + \mathbf{EF})$$

$$\mathbf{BP} := \mathbf{AB} \quad \mathbf{BO} := \frac{\mathbf{BP}}{2} \quad \mathbf{OT} := \sqrt{\mathbf{BO}^2 - \mathbf{ST}^2}$$

$$\mathbf{BT} := \mathbf{BO} - \mathbf{OT} \quad \mathbf{R} := \frac{\mathbf{BT}}{\mathbf{ST}} \quad \mathbf{R} = 0.398638$$



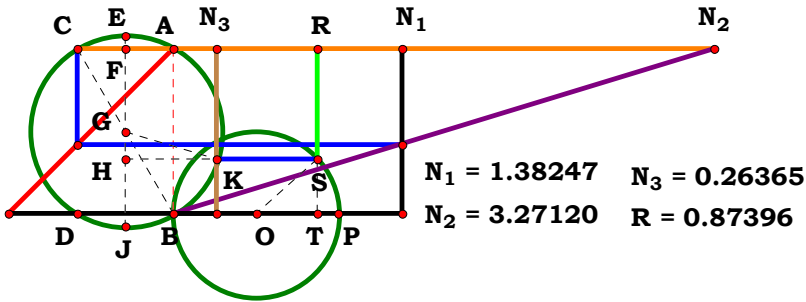
$$\frac{\sqrt{N_2} - \sqrt{2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 + (4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)) - (N_2 + (4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)))}}}{\sqrt{N_2} - \sqrt{N_2 + (4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3))}} \cdot R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_2} - \sqrt{2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)}} - \left[N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3) \right]}{\sqrt{N_2} - \sqrt{N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]} - [A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]] \cdot \sqrt{A \cdot B}}}{(A \cdot B)^{\frac{1}{4}} \cdot [C \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]}]} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{Y} \cdot \mathbf{q}} \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{3}{4}} - \sqrt{\mathbf{p}} \cdot \sqrt{4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - \mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} + 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} + 2 \cdot \sqrt{\mathbf{Y} \cdot \mathbf{o}} \cdot \sqrt{\mathbf{p}} \cdot \mathbf{q} \cdot \sqrt{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} + 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}}}{\left(\sqrt{\mathbf{Y} \cdot \mathbf{q}} \cdot \sqrt{\mathbf{o} \cdot \mathbf{p}} - \sqrt{\mathbf{p}} \cdot \sqrt{\mathbf{Y} \cdot \mathbf{o} \cdot \mathbf{q}^2 - 4 \cdot \mathbf{Y} \cdot \mathbf{Z}^2 \cdot \mathbf{o} + 4 \cdot \mathbf{X} \cdot \mathbf{Z} \cdot \mathbf{p} \cdot \mathbf{q} - 4 \cdot \mathbf{Y} \cdot \mathbf{Z} \cdot \mathbf{o} \cdot \mathbf{q}}\right) \cdot (\mathbf{o} \cdot \mathbf{p})^{\frac{1}{4}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 3.27130$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

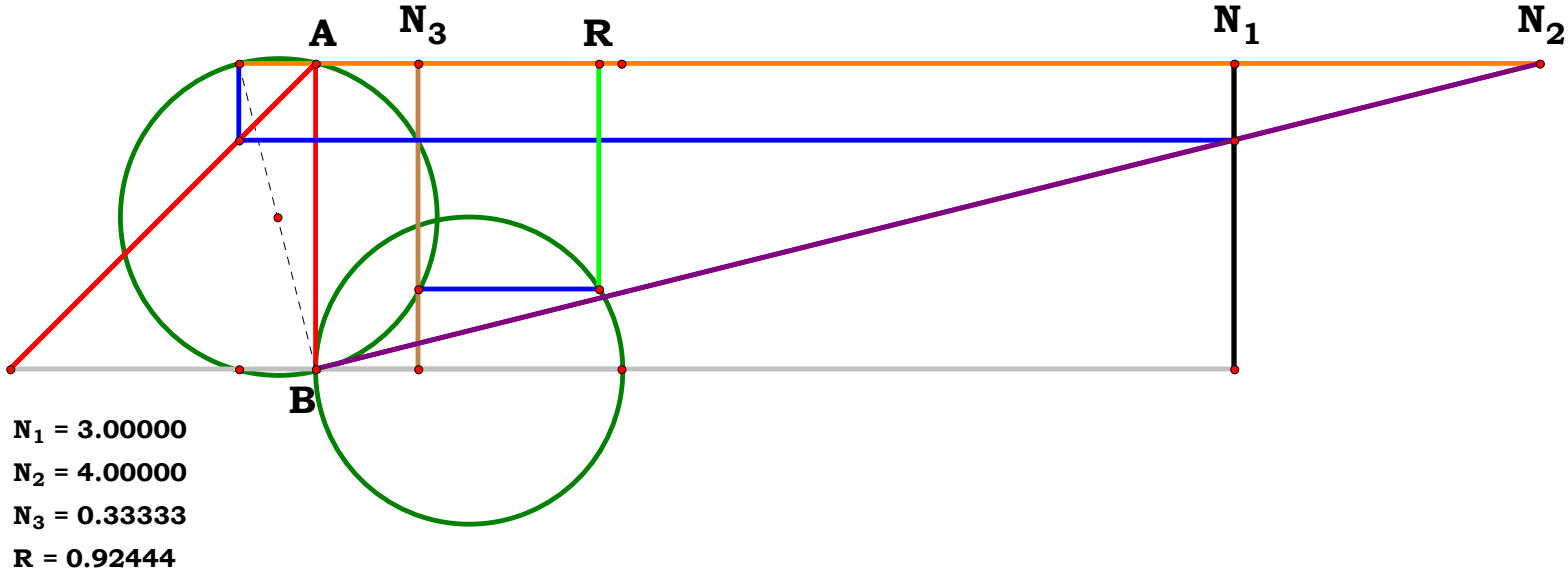
$$GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2}$$

$$OT := \sqrt{BO^2 - ST^2} \quad R := BO + OT$$

$$R = 0.873958$$



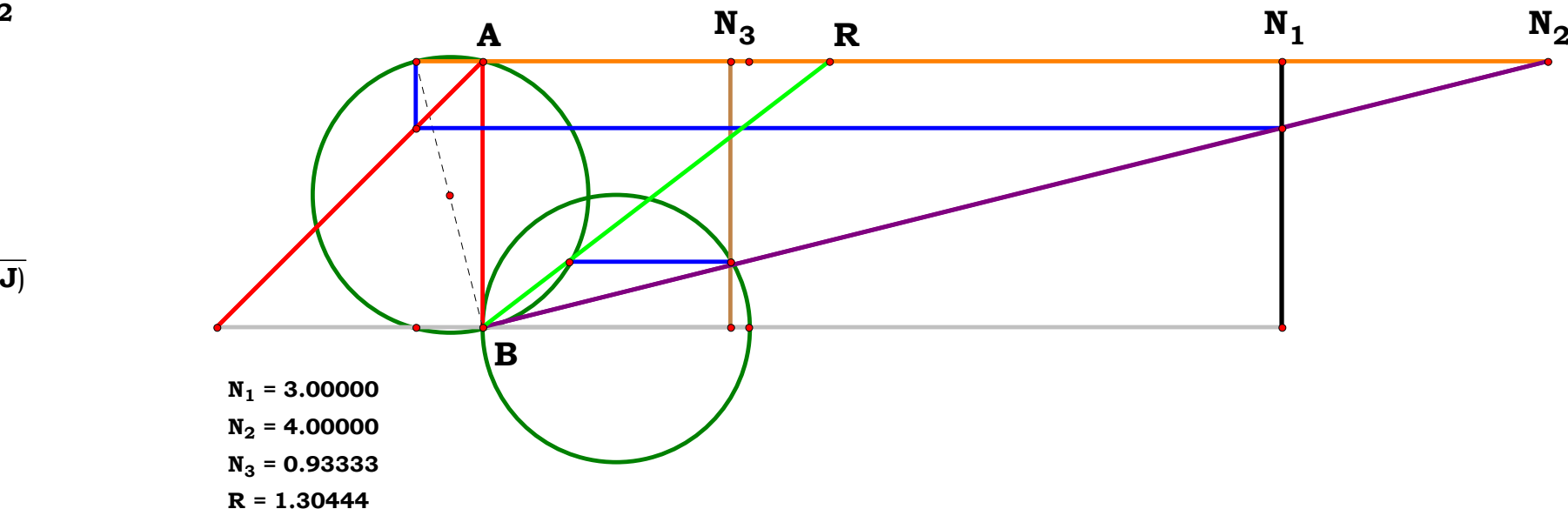
$$\frac{\sqrt{N_2} + \sqrt{2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 + (4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)) - (4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)) - N_2}}}{2 \cdot \sqrt{N_2}} - R = 0.00000$$

Definitions.

$$R - \frac{\sqrt{N_2} + \sqrt{2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3) - 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3) - N_2}}}{2 \cdot \sqrt{N_2}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} + \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]} - [A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]] \cdot \sqrt{A \cdot B}}}{2 \cdot C \cdot (A \cdot B)^{\frac{3}{4}}} = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{p} \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} - 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 4 \cdot Y \cdot Z \cdot o \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y \cdot o} \cdot \sqrt{p \cdot q} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o + 4 \cdot X \cdot Z \cdot p \cdot q - 4 \cdot Y \cdot Z \cdot o \cdot q} + \sqrt{Y \cdot q} \cdot (o \cdot p)^{\frac{3}{4}}}}{2 \cdot \sqrt{Y \cdot (o \cdot p)^{\frac{3}{4}}} \cdot q} = 0$$



$$\mathbf{X} := 20 \quad \mathbf{Y} := 19 \quad \mathbf{Z} := 18 \quad \mathbf{o} := \frac{\mathbf{X}}{\mathbf{N}_1} \quad \mathbf{p} := \frac{\mathbf{Y}}{\mathbf{N}_2} \quad \mathbf{q} := \frac{\mathbf{Z}}{\mathbf{N}_3}$$

$$\mathbf{AC} := \frac{\mathbf{N}_2 - \mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EJ} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{AF} := \frac{\mathbf{AC}}{2} \quad \mathbf{EF} := \frac{\mathbf{EJ} - \mathbf{AB}}{2}$$

$$\mathbf{BP} := \mathbf{AB} \quad \mathbf{GO} := \sqrt{\mathbf{N}_3 \cdot (\mathbf{BP} - \mathbf{N}_3)}$$

$$\mathbf{HJ} := \mathbf{GO} + \mathbf{EF} \quad \mathbf{HK} := \sqrt{\mathbf{HJ} \cdot (\mathbf{EJ} - \mathbf{HJ})}$$

$$R := \frac{HK - AF}{GO} \quad R = 0.656473$$

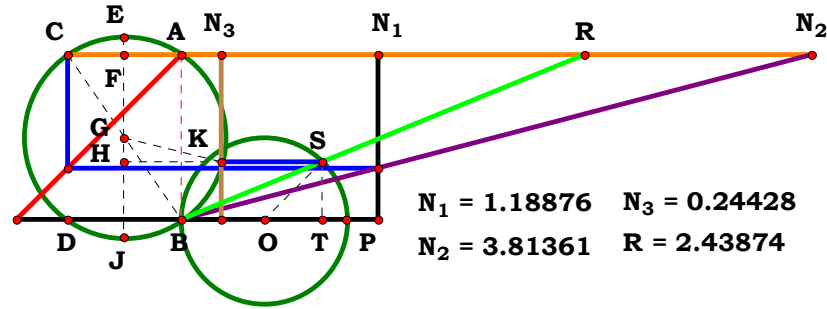
$$\frac{(N_1 - N_2) + \sqrt{(4 \cdot N_2^2 \cdot \sqrt{N_3 \cdot (1 - N_3)}) - 4 \cdot N_2^2 \cdot (N_3 \cdot (1 - N_3))} + (N_1 - N_2)^2}}{2 \cdot N_2 \cdot \sqrt{N_3 \cdot (1 - N_3)}} - R = 0.00000$$

Definitions.

$$\mathbf{R} - \frac{(\mathbf{N}_1 - \mathbf{N}_2) + \sqrt{4 \cdot \mathbf{N}_2^2 \cdot \sqrt{\mathbf{N}_3 \cdot (1 - \mathbf{N}_3)} - 4 \cdot \mathbf{N}_2^2 \cdot \mathbf{N}_3 \cdot (1 - \mathbf{N}_3) + (\mathbf{N}_1 - \mathbf{N}_2)^2}}{2 \cdot \mathbf{N}_2 \cdot \sqrt{\mathbf{N}_3 \cdot (1 - \mathbf{N}_3)}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{N}_u}{\mathbf{A}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{N}_u}{\mathbf{B}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{N}_u}{\mathbf{C}} = 0$$

$$\mathbf{R} - \frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A}^2 + \mathbf{B}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B}) - 4 \cdot \mathbf{A}^2 \cdot (\mathbf{C} \cdot \mathbf{N}_u - \mathbf{C} \cdot \sqrt{\mathbf{C} \cdot \mathbf{N}_u - \mathbf{N}_u^2 - \mathbf{N}_u^2}) - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})}}{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{N}_u \cdot (\mathbf{C} - \mathbf{N}_u)}} = 0 \quad \mathbf{N}_1 - \frac{\mathbf{X}}{\mathbf{o}} = 0 \quad \mathbf{N}_2 - \frac{\mathbf{Y}}{\mathbf{p}} = 0 \quad \mathbf{N}_3 - \frac{\mathbf{Z}}{\mathbf{q}} = 0$$

$$R - \frac{\sqrt{4 \cdot Y^2 \cdot Z^2 \cdot o^2 + X^2 \cdot p^2 \cdot q^2 + Y^2 \cdot o^2 \cdot q^2 - 4 \cdot Y^2 \cdot Z \cdot o^2 \cdot q + 4 \cdot Y^2 \cdot o^2 \cdot q \cdot \sqrt{Z \cdot q - Z^2} - 2 \cdot X \cdot Y \cdot o \cdot p \cdot q^2 + X \cdot p \cdot q - Y \cdot o \cdot q}}{2 \cdot Y \cdot o \cdot \sqrt{Z \cdot q - Z^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.18876$ $N_2 := 3.81361$ $N_3 := .24428$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$X := 20 \quad Y := 19 \quad Z := 18 \quad o := \frac{X}{N_1} \quad p := \frac{Y}{N_2} \quad q := \frac{Z}{N_3}$$

Descriptions.

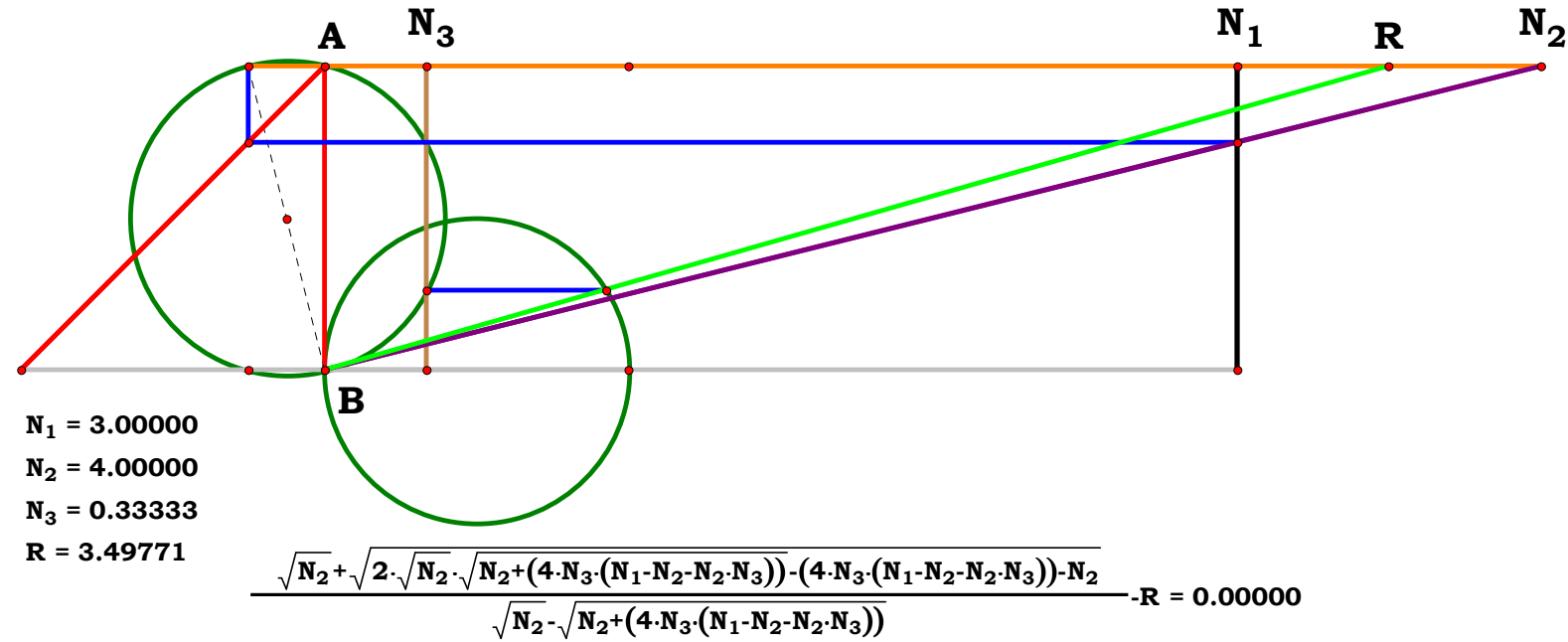
$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EJ - AB}{2} \quad GK := \frac{EJ}{2} \quad HK := AF + N_3$$

$$GH := \sqrt{GK^2 - HK^2} \quad ST := GK - (GH + EF)$$

$$BP := AB \quad BO := \frac{BP}{2} \quad OT := \sqrt{BO^2 - ST^2}$$

$$BT := BO + OT \quad R := \frac{BT}{ST} \quad R = 2.438738$$



Definitions.

$$R - \frac{\sqrt{N_2 + \sqrt{2 \cdot \sqrt{N_2} \cdot \sqrt{N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)) - 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3)) - N_2}}}{\sqrt{N_2 - \sqrt{N_2 + 4 \cdot N_3 \cdot (N_1 - N_2 - N_2 \cdot N_3))}}} = 0 \quad N_1 - \frac{N_u}{A} = 0 \quad N_2 - \frac{N_u}{B} = 0 \quad N_3 - \frac{N_u}{C} = 0$$

$$R - \frac{C \cdot (A \cdot B)^{\frac{3}{4}} + \sqrt{B} \cdot \sqrt{2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u] - [A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]]} \cdot \sqrt{A \cdot B}}}{(A \cdot B)^{\frac{1}{4}} \cdot [C \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{A \cdot C^2 - 4 \cdot N_u \cdot [C \cdot (A - B) + A \cdot N_u]}}] = 0 \quad N_1 - \frac{X}{o} = 0 \quad N_2 - \frac{Y}{p} = 0 \quad N_3 - \frac{Z}{q} = 0$$

$$R - \frac{\sqrt{p \cdot \sqrt{4 \cdot Y \cdot Z^2 \cdot o \cdot \sqrt{o \cdot p} - Y \cdot o \cdot q^2 \cdot \sqrt{o \cdot p} - 4 \cdot X \cdot Z \cdot p \cdot q \cdot \sqrt{o \cdot p} + 4 \cdot Y \cdot Z \cdot o \cdot q \cdot \sqrt{o \cdot p} + 2 \cdot \sqrt{Y \cdot o} \cdot \sqrt{p \cdot q} \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o + 4 \cdot X \cdot Z \cdot p \cdot q - 4 \cdot Y \cdot Z \cdot o \cdot q} + \sqrt{Y \cdot q} \cdot (o \cdot p)^{\frac{3}{4}}}}{(o \cdot p)^{\frac{1}{4}} \cdot (\sqrt{Y \cdot q} \cdot \sqrt{o \cdot p} - \sqrt{p \cdot \sqrt{Y \cdot o \cdot q^2 - 4 \cdot Y \cdot Z^2 \cdot o + 4 \cdot X \cdot Z \cdot p \cdot q - 4 \cdot Y \cdot Z \cdot o \cdot q}})} = 0$$